CDX-4040/EXCD-40

SERVICE MANUAL

US Model
E Model
CDX-4040

US Model
EXCD-40

Photo: EXCD-40

Model Name Using Similar Mechanism	CDX-7540
CD Drive Mechanism Type	MG-200Y-33

SPECIFICATIONS

Power amplifier section

Outputs	Speaker outputs (sure seal connectors)
Speaker impedance	2 – 8 ohms
Maximum power output	20 W × 2 (at 4 ohms)*

* Measured at 14.4 V

CD player section

System	Compact disc digital audio system
Frequency response	10 – 20,000 Hz ±3 dB
Signal to noise ratio	90 dB
Wow and flutter	Below the measurable limit

General

Input	WALKMAN IN jack
Power requirements	12 V DC car battery (negative ground)
Current drain	800 mA (CD playback) 2 A (during disc loading or eject)
Operating temperature	– 10°C to 50°C
Dimensions	Approx. 180 × 50 × 155 mm (w/h/d)
Mass	Approx. 1.5 kg
Tone controls	Bass ±10 dB (100 Hz) Treble ±10 dB (10 kHz)

Supplied accessories	Mounting hardware (1 set) Power connecting cord (1) Rubber cap for the WALKMAN IN jack (1)
Optional accessories	Mounting kit Cleaning cloth XP-CD1

Tuner section

		FM	AM
Tuning range	US MODEL	87.9 – 107.9 MHz	530 – 1,710 kHz
	E MODEL	87.5 – 108.0 MHz	AM tuning interval 9 kHz/10 kHz switchable 531 – 1,602 kHz (at 9 kHz step) 530 – 1,620 kHz (at 10 kHz step)
Antenna terminal		FM/AM external antenna connector	
Intermediate frequency		10.7 MHz	450 kHz
Usable sensitivity		12 dBf (1.1 μV/75 ohms)	35 μV
Selectivity		75 dB at 400 kHz	–
Signal to noise ratio		70 dB (monaural) 65 dB (stereo)	55 dB
Harmonic distortion at 1 kHz		0.3 % (monaural) 0.5 % (stereo)	0.3 %
Stereo separation		35 dB	–
Frequency response		30 Hz – 15,000 Hz ± 3 dB	–

Design and specifications subject to change without notice.

FM/AM COMPACT DISC PLAYER

SONY®

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SERVICING NOTE

1) Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270°C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

Notes on chip component replacement

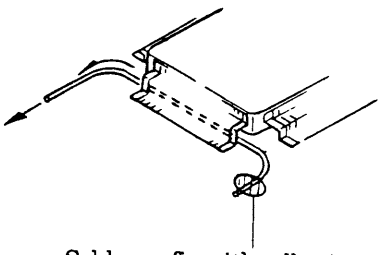
- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

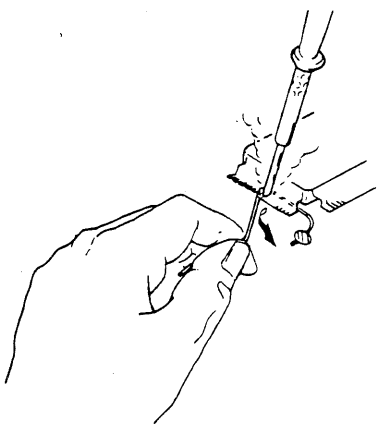
2) Removing the Flat Package IC

1. Prepare an enameled wire (0.3mm diameter) and apply it to the back side of the IC pins as illustrated below.



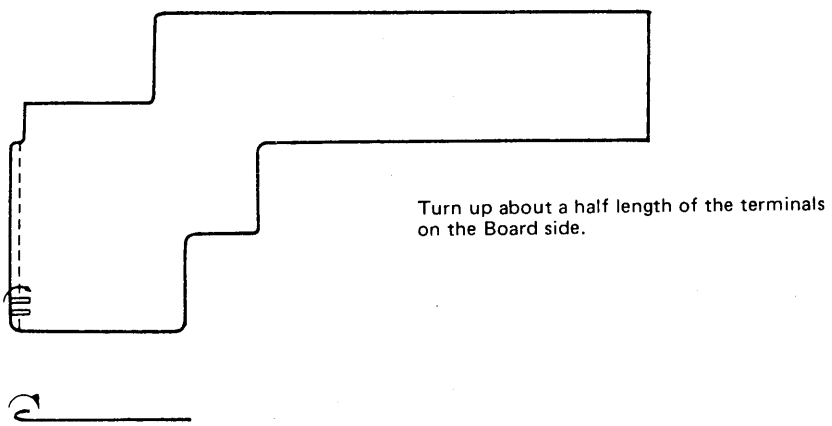
Solder or fix with adhesive tape.

2. Heat the IC pin with the soldering iron and draw the enameled wire so that the IC pin is removed from the pattern as illustrated.

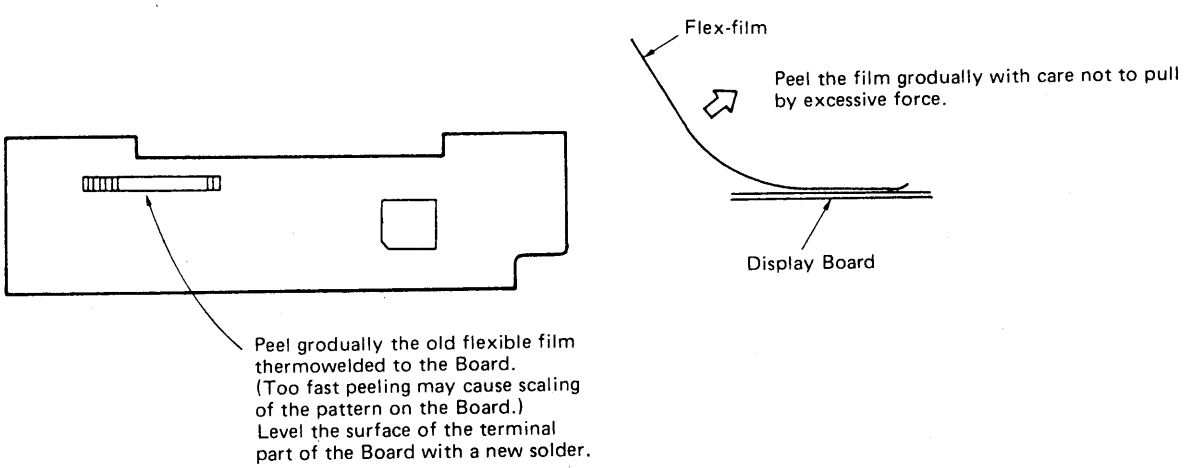


3) Procedure of Replacing the Flexible PC Film of the Display Board.

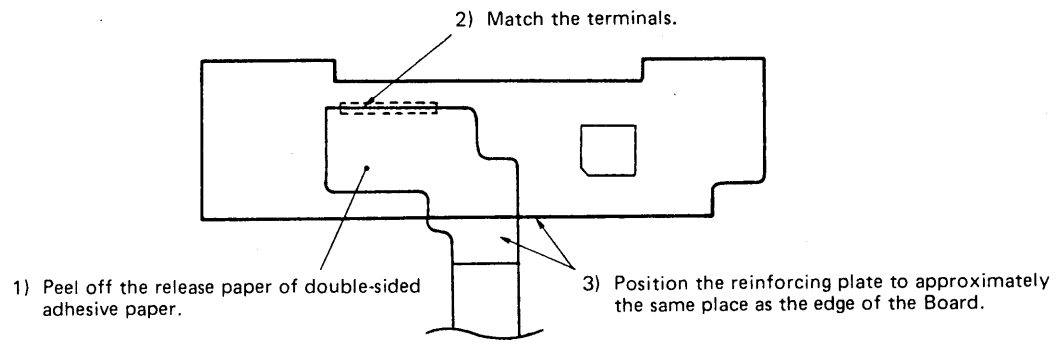
①



②


Flex-film
Peel the film grodually with care not to pull
by excessive force.
Display Board
Peel grodually the old flexible film
thermowelded to the Board.
(Too fast peeling may cause scaling
of the pattern on the Board.)
Level the surface of the terminal
part of the Board with a new solder.

③


2) Match the terminals.
1) Peel off the release paper of double-sided
adhesive paper.
3) Position the reinforcing plate to approximately
the same place as the edge of the Board.

Peel off the release paper of the double-sided adhesive paper on the flexible film. Then position the flexible film on the Board correcting, and attach the film to the Board. Solder each terminal.

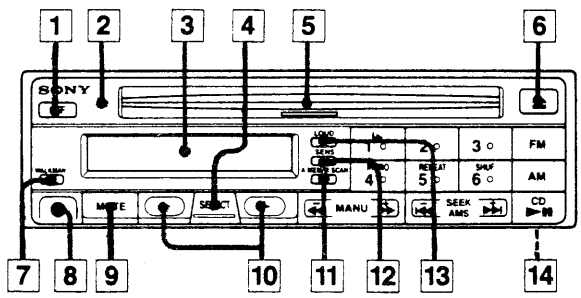
* Care should be taken not to peel the pattern on the flexible film. Excessive heating of the terminals directing with a soldering iron may peel the pattern of the flexible film.

SECTION 1
GENERAL

This section is extracted from instruction manual

Location of Controls

General section



1 **OFF (power off) button**

2 **Reset button**

3 **Display window**

4 **SELECT (volume/balance/bass/treble/ fader select) button**
Note : Select of fader is only CDX-4040.

5 **Disc insertion slot**

6 **⏏ (eject) button**

7 **WALKMAN button**

8 **WALKMAN IN jack**

9 **MUTE button**
Press to momentarily mute the sound. Press again to restore the same level as before.

10 **−/+ button**

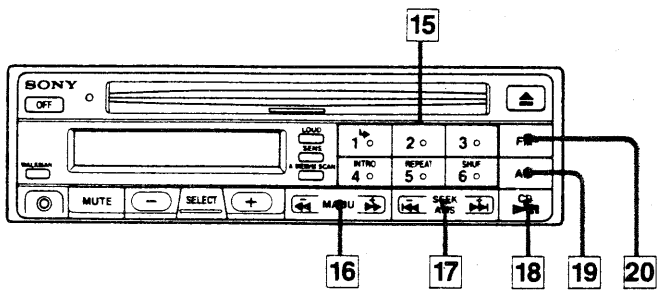
11 **A.MEM/M.SCAN (automatic memory/memory scan) button**

12 **SENS (sensitivity) button**

13 **LOUD (loudness) button**
Press to reinforce bass and treble especially when listening at low volume. To disengage the button, press it again.

14 **Power Select switch (locating on the bottom of the unit)**
For the detailed information, see the supplied installation/connections manual.

Radio/CD section



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Number	During disc play	During radio reception
1	↳ (skipping to the top) button	Preset number buttons
2	—	
3	—	
4	INTRO button	
5	REPEAT button	
6	SHUF (shuffle) button	

	During disc play	During radio reception
16	MANU ◀◀/▶▶ (manual search) button	MANU −/+ (manual tuning) button
17	AMS* ⏮/⏭ button	SEEK −/+ (automatic tuning) button

18 **CD ► II (disc play/pause) button**

19 **AM (tuner on) button**

20 **FM (tuner on/band select) button**

* Automatic Music Sensor

SECTION 2
CIRCUIT DESCRIPTION

IC3 PINS (CXD1167Q)

Pin No.	Terminal	I/O	Description
1	FSW	O	Output time constant transfer.
2	MON	O	ON/OFF Control output.
3	MDP	O	Output drive of spindle motor.
4	MDS	O	Output drive of spindle motor.
5	EFM	I	Input the EFM signal from RF amplifier.
6	ASY	O	Control the slice level of EFM signal for output.
7	LOCK	O	"H" is H output, "L" is L output.
8	VCOO	O	Output VCO.
9	VCOI	I	Input VCO.
10	TEST	I	(0 V)
11	PDO	O	Phase compare output.
12	VSS	–	GND (0 V)
13	CLK	I	Data latch/Clock input from CPU.
14	XLT	I	Input the latch from CPU.
15	DATA	I	Serial data input from CPU.
16	XRST	I	System reset input.
17	CNIN	I	Input the tracking pulse.
18	SENS	O	Address.
19	MUTG	I	Muting input.
20	CRCF	O	Subcode Q signal output.
21	EXCK	I	Clock input for subcode serial output.
22	SBSO	O	Subcode serial output.
23	SUBQ	O	Subcode Q signal output.
24	SCOR	O	Subcode sync S0+S1 signal output.
25	SQCK	I/O	Subcode Q signal clock.
26	SQEX	I	Selective output of SQCK.
27	DOTX	O	Digital out output.
28	GFS	O	Display output.
29	TEST	I	"H" or "L".
30	TEST	I	"H" or "L".
31	TEST	I	"H" or "L".
32	TEST	I	"H" or "L".
33	VDD	–	POWER (+5 V)
34	TEST	I	"H" or "L".
35	TEST	I	"H" or "L".
36	TEST	I	"H" or "L".
37	TEST	I	"H" or "L".
38	TEST	I	"H" or "L".
39	TEST	I	"H" or "L".
40	TEST	I	"H" or "L".
41	TEST	I	"H" or "L".

IC3 PINS (CXD1167Q)

Pin No.	Terminal	I/O	Description
42	TEST	I	"H" or "L".
43	TEST	I	"H" or "L".
44	TEST	I	"H" or "L".
45	TEST	I	"H" or "L".
46	TEST	I	"H" or "L".
47	TEST	I	"H" or "L".
48	TEST	I	"H" or "L".
49	TEST	I	"H" or "L".
50	TEST	I	"H" or "L".
51	C4M	O	X'tal. f = 4.2336 MHz
52	VSS	–	GND (0 V)
53	XTAI	I	X'tal oscillate input. f = 8.4672 MHz or 16.9344 MHz
54	XTAO	O	X'tal oscillate output. f = 8.4672 MHz or 16.9344 MHz
55	MD1	I	Mode select input 1.
56	MD2	I	Mode select input 2.
57	MD3	I	Mode select input 3.
58	SLOB	I	Code change input of audio data output.
59	PSSL	I	Mode change input of audio data output.
60	APTR	O	Aperture control output. R-ch: "H".
61	APTL	O	Aperture control output. L-ch: "H".
62	DA01	O	PSSL = "H": DA01 output. PSSL = "L": C1F1 output.
63	DA02	O	PSSL = "H": DA02 output. PSSL = "L": C1F2 output.
64	DA03	O	PSSL = "H": DA03 output. PSSL = "L": C2F1 output.
65	DA04	O	PSSL = "H": DA04 output. PSSL = "L": C2F2 output.
66	DA05	O	PSSL = "H": DA05 output. PSSL = "L": C2FL output.
67	DA06	O	PSSL = "H": DA06 output. PSSL = "L": C2PO output.
68	DA07	O	PSSL = "H": DA07 output. PSSL = "L": RFCK output.
69	DA08	O	PSSL = "H": DA08 output. PSSL = "L": WFCK output.
70	DA09	O	PSSL = "H": DA09 output. PSSL = "L": $\overline{\text{PLCK}}$ output.
71	DA10	O	PSSL = "H": DA10 output. PSSL = "L": UGFS output.
72	DA11	O	PSSL = "H": DA11 output. PSSL = "L": GTOP output.
73	VDD	–	POWER (+5 V)
74	DA12	O	PSSL = "H": DA12 output. PSSL = "L": RAOV output.
75	DA13	O	PSSL = "H": DA13 output. PSSL = "L": C4LR output.
76	DA14	O	PSSL = "H": DA14 output. PSSL = "L": BCLK output.
77	DA15	O	PSSL = "H": DA15 output. PSSL = "L": $\overline{\text{BCLK}}$ output.
78	DA16	O	PSSL = "H": DA16 output. PSSL = "L": DATA output.
79	WDCK	O	Strobe signal output. DF ON: 176.4 kHz, DF OFF: 88.2 kHz
80	LRCK	O	Strobe signal output. DF ON: 88.2 kHz, DF OFF: 44.1 kHz

IC501 PINS (μPD75516GF-357-3B9)

Pin No.	Terminal	I/O	Description
1	A0	I	Input to the model setting.
2	AV REF	I	Reference voltage input pin of A/D conversion pin.
3	VDD	—	Power supply pin.
4	VDD	—	Power supply pin.
5	L.O +	O	Loading moter control.
6	L.O −	O	Reverse loading.
7	PL	O	Mechanism deck PLUNGER driving.
8	8cm	O	8cm DISC CLV GAIN control.
9	LD ON	O	CD PICK UP laser power control.
10	D.MUTE	O	DISITAL MUTE ON/OFF switching.
11	CD ON	O	Mechanism deck POWER control.
12	CD RST	O	CD servo IC Reset output.
13	MUTE	O	MUTE control pin.
14	COLOR	O	Lighting colors switching.
15	VOL CE	O	Electronic VOL • ENBL signal.
16	LCD CE	O	LCD DRIVER ENBL signal.
17	DATA IN	I	DATA input pin for the PLL-IC
18	DATA OUT	O	Sirial DATA output pin.
19	CLK OUT	O	Clock for serial communication.
20	PLL CE	O	PLL-IC INBL signal.
21	KI3	I	KEY DATA input pin.
22	KI2	I	KEY DATA input pin.
23	KI1	I	KEY DATA input pin.
24	KI0	I	KEY DATA input pin.
25	KO7	O	KEY -RETURN signal.
26	KO6	O	KEY -RETURN signal.
27	KO5	O	KEY -RETURN signal.
28	KO4	O	KEY -RETURN signal.
29	KO3	O	KEY -RETURN signal.
30	KO2	O	KEY -RETURN signal.
31	KO1	O	KEY -RETURN signal.
32	KO0	O	KEY -RETURN signal.
33	GND	—	GND
34	SIG2	O	AUDIO signal switching control.
35	SIG1	O	AUDIO signal switching control.
36	SUBQ CLK	O	Clock output pin for reading the CD Q DATA.
37	BW	O	OPEN
38	SUBQ	I	CD Q DATA input pin.
39	E SW	I	Loading sensor E input.
40	CD PLAY	O	CD servo IC power control.

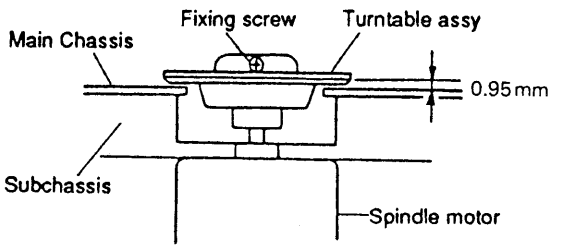
IC501 PINS (μPD75516GF-357-3B9)

Pin No.	Terminal	I/O	Description
41	MONO/$\overline{ST}$	I/O	AUTO STEREO/Forcible MONO switching.
42	TU ON	O	POWER of the TUNER • POWER ANT output pin.
43	ILL ON	O	Output pin for lighting bottons.
44	POWER ON	O	SYSTEM POWER OUTPUT pin.
45	BEEP	O	BUZZER output signal.(2kHz/1kHz)
46	B SW	I	Loading sensor B input.
47	D SW	I	Loading sensor D input.
48	NC	—	OPEN
49	SCOR	I	CD SCOR input pin.
50	NC	—	OPEN
51	NC	—	Pull DOWN.
52	NC	—	OPEN
53	B.U.C	I	BATT line ON/OFF detection. (Back up Check)
54	GND	—	GND
55	XT1	I	Not used.
56	XT2	O	Not used.
57	GND	—	GND
58	X1	I	The system CLOCK.(4.19MHz)
59	X2	O	The system CLOCK.(4.18MHz)
60	RESET	I	RESET input pin.
61	NC	—	OPEN
62	NC	—	OPEN
63	NC	—	OPEN
64	NC	—	OPEN
65	WM IN	I	WALKMAN KEY input.
66	FAD $\overline{ON}$/OFF	I	Fader control ON/OFF switching.
67	HANDLE	I	+5V
68	P/S	I	POWER SELECT SW input.
69	ENPH	O	CD EMPHASIS control.
70	CD CLK	O	Servo IC DATA CLK.
71	CD LATCH	O	Servo IC DATA LATCH.
72	CD DATA	O	Servo IC DATA OUT.
73	GND	—	GND
74	ACC.C	I	ACC line ON/OFF detection.
75	GHS	I	CD GFS input.
76	SENS	I	CD SENS input.
77	FOK	I	CD FOK input.
78	A3	I	Input to the model setting.
79	A2	I	Input to the model setting.
80	A1	I	Input to the model setting.

SECTION 3
MECHANICAL ADJUSTMENTS

Turntable Height Adjustment

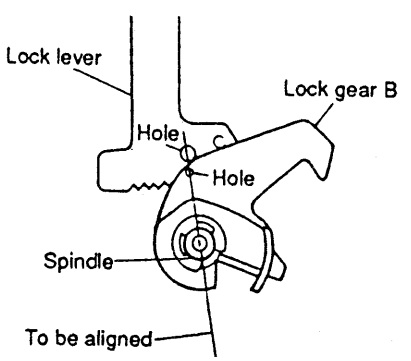
Loosen the fixing screws and adjust the height to the specification illustrated.



Lock Gears (A and B) Installing Adjustment

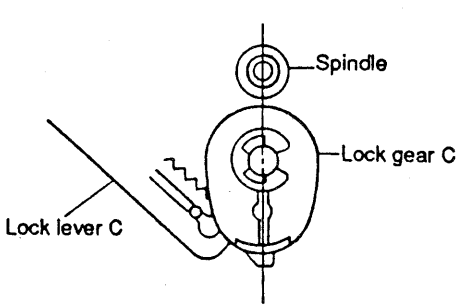
Since installing lock gears A and B is the same, only lock gear B is described below.

1. Rotate the gear near the motor with your fingers to move the optical section toward the external circumference.
2. Continue to rotate the gear until the lock gear is disconnected from the notch of the chassis and stops.
3. Fix the lock gear so that the holes of the lock lever and the lock gear and the spindle are roughly aligned.



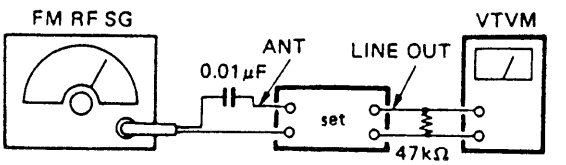
Lock Gear C installing Position Adjustment

1. Rotate the gear near the motor and move the optical section toward the external circumference.
2. Continue to rotate the gear until the lock gear is disconnected from the notch of the chassis and stops.
3. Fix lock gear C so that the spindle, the lock gear C fixing axis and the center of the lock gear C projection are roughly aligned.



SECTION 4
ELECTRICAL ADJUSTMENTS

FM Carrier Leak Adjustment

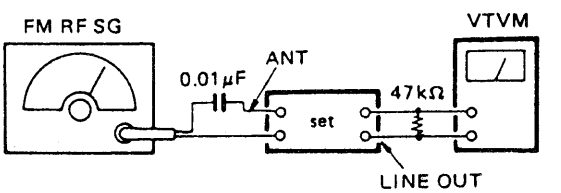


Carrier frequency:	97.9MHz (US model) 98.0MHz (E model)
Output level:	1mV (More than 70dB)
Mode:	FM
Modulation:	Main channel: 1kHz, 33.75kHz deviation (45%) Pilot signal: 19kHz, 7.5kHz deviation (10%) Subchannel: 1kHz, 33.75kHz deviation (45%)

Procedure:

1. Tune-up at US model: 97.9MHz, E model: 98.0MHz.
2. Adjust RV601 so that reading on VTVM is minimum level.

FM stereo separation adjustment



Carrier frequency:	97.9MHz (US model) 98.0MHz (E model)
Output level:	1mV (More than 70dB)
Mode:	FM
Modulation:	Main channel: 1kHz, 33.75kHz deviation (45%) Pilot signal: 19kHz, 7.5kHz deviation (10%) Subchannel: 1kHz, 33.75kHz deviation (45%)

Procedure:

FM Stereo SSG Output channel	VTVM connection	VTVM reading (dB)
L-CH	L-CH	(A)
R-CH	L-CH	Adjust RV602 so that the VTVM reading is minimum. (B)
R-CH	R-CH	(C)
L-CH	R-CH	Adjust RV602 so that the VTVM reading is minimum. (D)

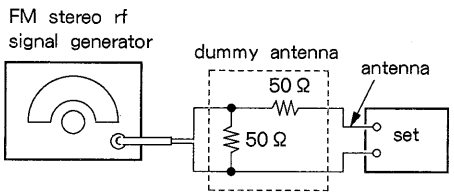
Note: The separation values in the two channels should be identical.
(A) – (B) = (C) – (D)

FM SECTION

FM Seek Stop Level Adjustment (FM SD Adjustment)

Setting:

BAND : FM
Frequency : 97.9MHz (US Model)
98MHz (E Model)



Carrier frequency : 97.9MHz (US Model)
98MHz (E Model)
Modulation : 1kHz,75kHz
Output level : 25dB (17.8uV)

Procedure:

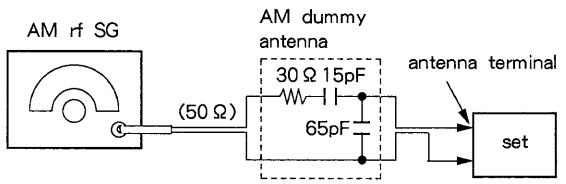
1. Setting to TEST mode for push the reset button, hold the [MUTE] and [LOUD] button pushing at simultaneous.
2. Press the FM button and adjust the LCD display to "FM".
3. Rotate the FM SD adjustment VR in the clockwise direction until the "REP" display of the LCD lights up. (within FE601)
4. Next rotate it in the counterclockwise direction until this display lights up.
5. Check that the SEEK STOP is carried out at "97.9" (US model) when the level of the FM SG is adjusted to 29dB and the SEEK [+] button is pressed. ("98.0" for E model)
6. Check that SEEK STOP is not carried out when the FM SG level is adjusted to 21dB and the SEEK [−] button is pressed.
7. Cancel to service mode for push of the [OFF] or reset button.

AM SECTION

AM Seek Stop Level Adjustment (AM SD Adjustment)

Setting:

BAND : AM
Frequency : 1000kHz (US Model)
999kHz (E Model)

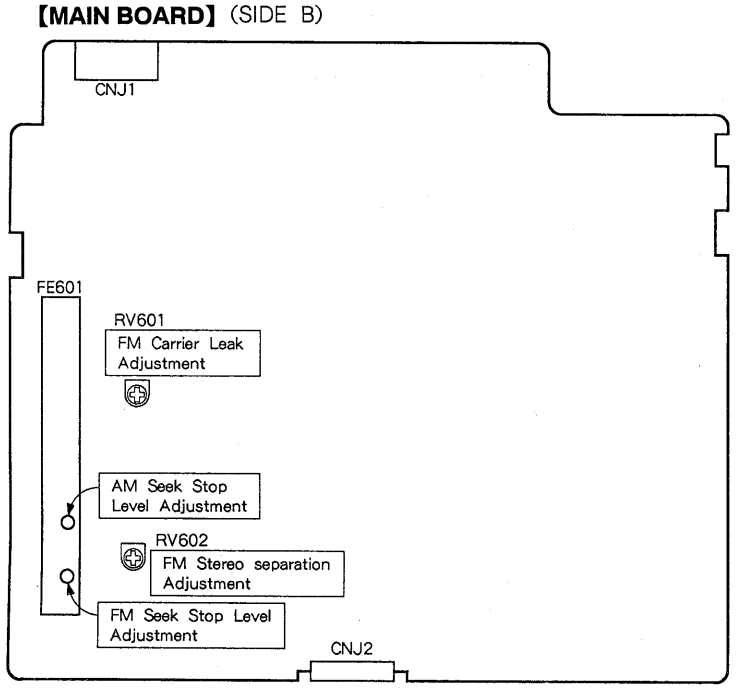


Carrier frequency : 1000kHz (US Model)
999kHz (E Model)
Modulation : 400Hz 30 %
Output level : 30dB (31uV)

Procedure:

1. Setting to TEST mode for push the reset button, hold the [MUTE] and [LOUD] button pushing at simultaneous.
2. Press the AM button, and display "AM 1000" (US model). ("AM999" for E model)
3. Rotate the AM SD adjustment VR in the clockwise direction until the "REP" display of the LCD disappears. (within FE601)
4. Next, rotate it in the counterclockwise direction until this display lights up.
5. Check that the SEEK STOP is carried out at "1000" (US model) when the level of the AM SG is adjusted to 34dB and the SEEK [+] button is pressed. ("999" for E model)
6. Check that SEEK STOP is not carried out when the AM SG level is adjusted to 24dB and the SEEK [−] button is pressed.
7. Cancel to service mode for push of the [OFF] or reset button.

Adjustment Location:
[MAIN BOARD] (SIDE B)



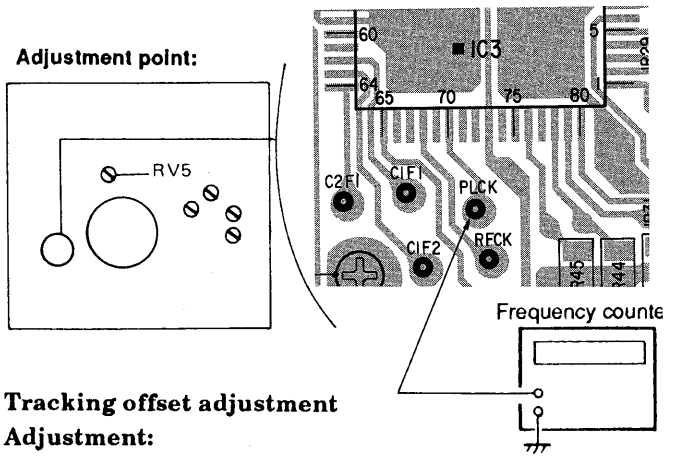
PLL free-run frequency adjustment

Adjustment:

1. Remove the soldering bridge (EFM) from the RF board.
2. Connect the frequency counter to test point (PLCK).
3. Setting to TEST mode for push the reset button, hold the [MUTE] and [LOUD] button pushing at simultaneous.
4. Push the [▶II] button two times.
5. Adjust RV5 so that frequency counter reading satisfies the specification.
6. Cancel to service mode for push of the [OFF] or reset button.
7. Short the soldering bridge (EFM) on the RF board.

Adjustable limits: 4.3118 to 4.3318MHz

Adjustment point:

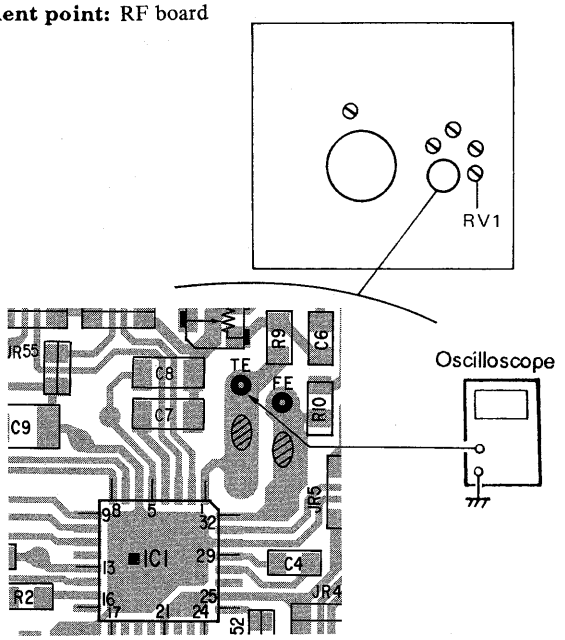


Tracking offset adjustment

Adjustment:

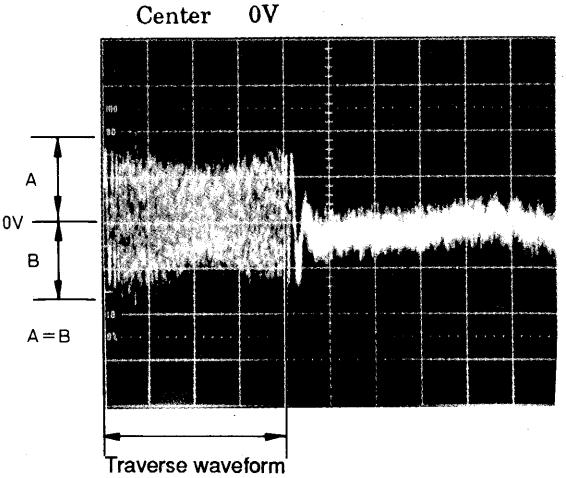
1. Connect the oscilloscope to test point TE on the MD board.
2. Load a disc and set mode to PLAY.
3. Press button ⏮ or ⏭ (◀◀ or ▶▶) and observe the traverse waveform.
4. Adjust RV1 so that the waveform is symmetric when cenetered at the level to be accessed.

Adjustment point: RF board



* Traverse waveform: Tracking error waveform which is observed when the track is traversed.

Volt/div: 0.5V
Time/div: 2msec
Center 0V



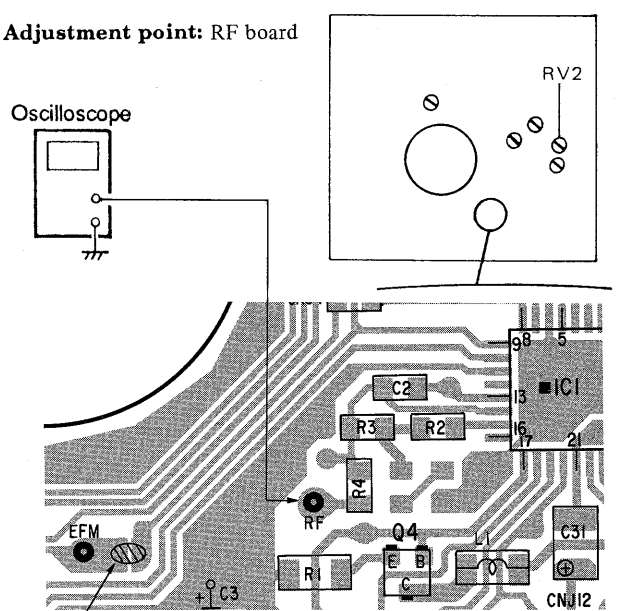
Traverse waveform
(100 track jump waveform)

Focus offset adjustment

Adjustment:

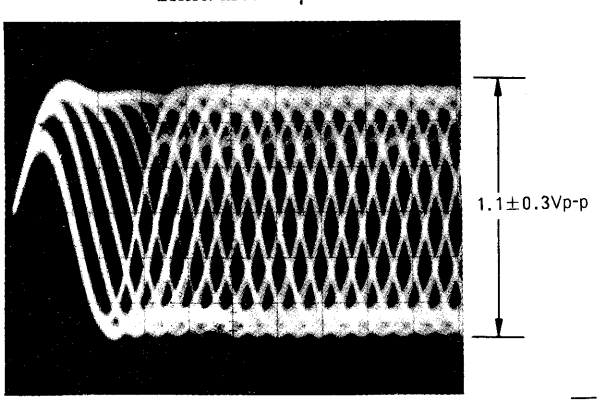
1. Connect the oscilloscope to test point RF on the RF board.
2. Load a disc and set mode to PLAY.
3. Adjust RV2 so that the waveform on the oscilloscope (eye pattern) is maximum with good shape. "Well-shaped eye pattern" means that the mark " ◇ " is clearly distinguished at the center of the waveform.

Adjustment point: RF board



EFM Solder Bridge

Volt/div: 200mV
Time/div: 0.5μsec



Tracking gain adjustment (Coarse adjustment)

This adjustment is not required unless the following parts are replaced:

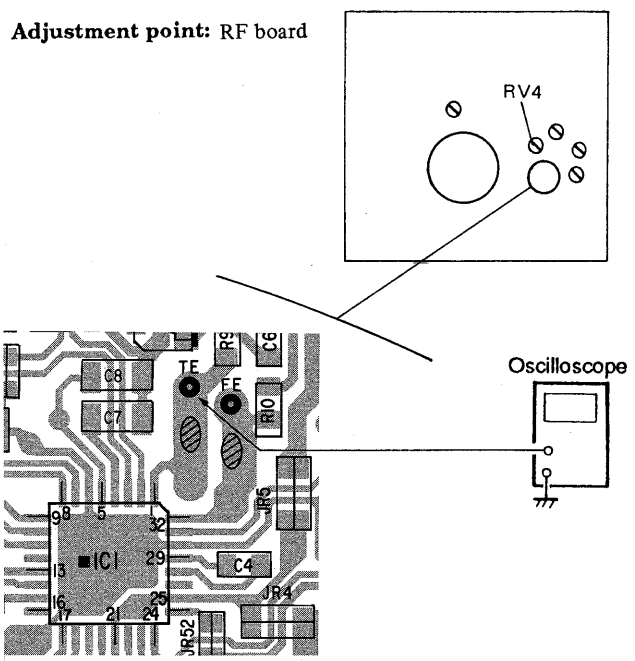
- Optical block
- RV4

Before starting this adjustment, complete the focus offset adjustment and the tracking off set adjustment.

Adjustment:

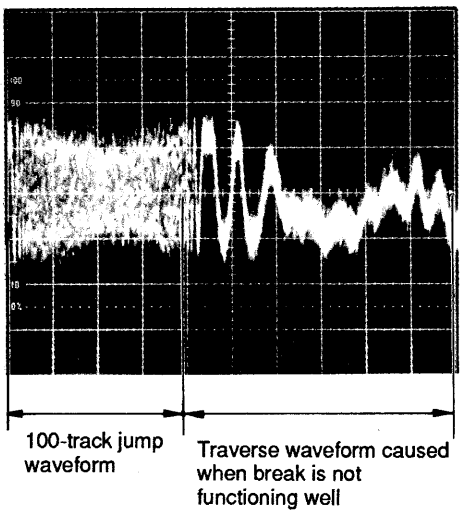
1. Connect the oscilloscope to test point TE on the main board.
2. Load a disc and set mode to PLAY.
3. Turning RV4 clockwise, from the leftmost position, observe the waveform on the oscilloscope.
   Fix RV4 at the position where the waveform is become stable.

Adjustment point: RF board



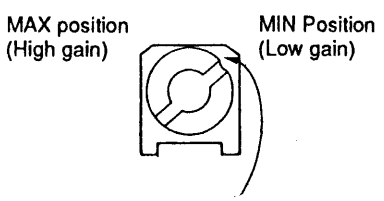
- If the gain is too low

When music is selected by pressing button ⏮ or ⏭ , the tracking jump waveform is not focused completely and the music selection is delayed. (Break function does not work wall because its gain is too low.)



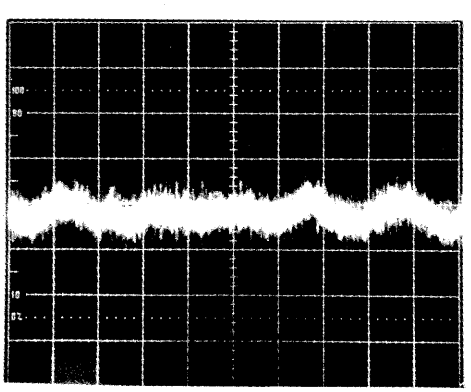
- If the gain is too high

Noise due to scratches and dust is heard and the operation becomes unstable.

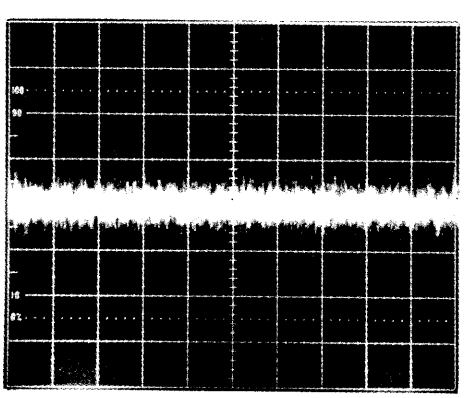


— RV4 standard setting —

Volt/div: 0.5V
Tile/div: 2msec



Fluctuating waveform



Stable waveform

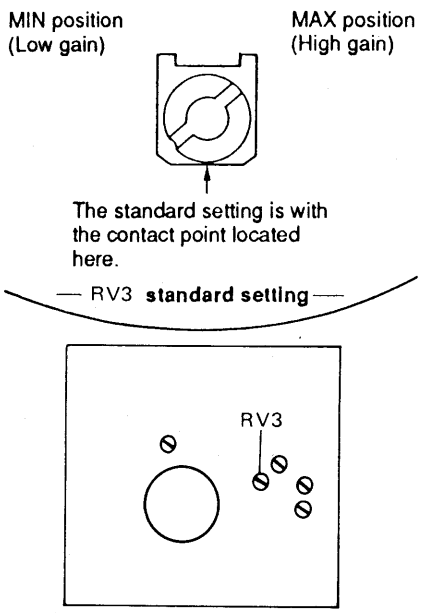
Focus gain adjustment (Coarse adjustment)

This adjustment is not required unless the following parts are replaced:

- Optical block
- RV3

Adjustment

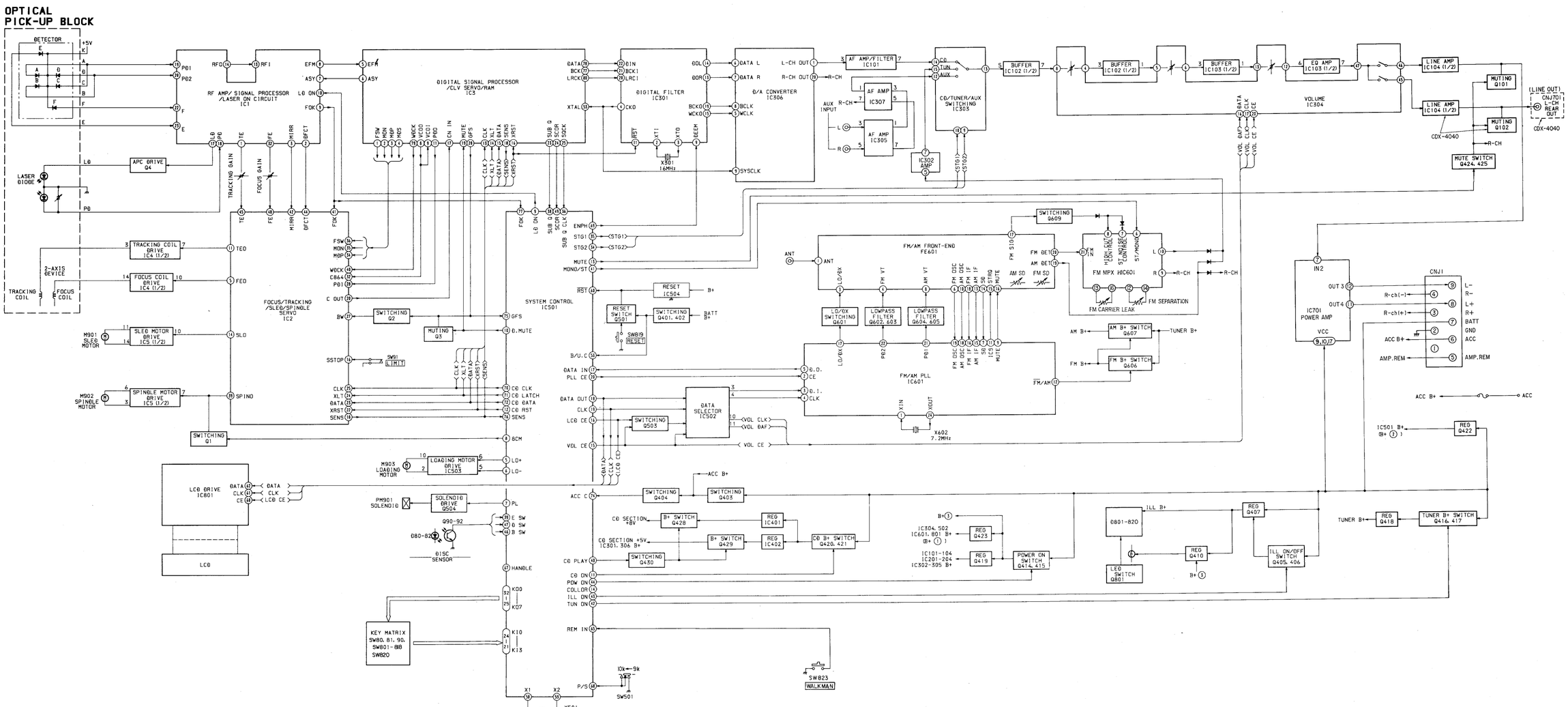
1. Set RV3 to the standard position.
2. Check whether operation noise (white noise type) caused by the double-axis device (lens section of the optical block) is abnormally loud.
   If the operation noise is too loud, turn RV3 slightly counterclockwise.



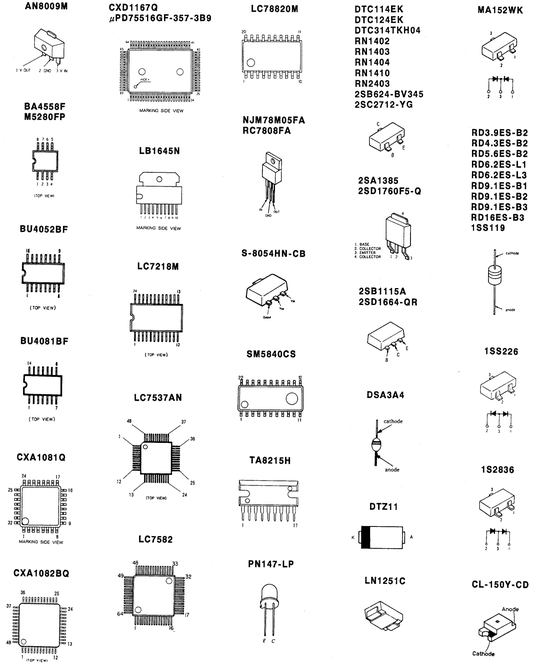
- If the gain is too low:
  Focus does not function and no music is selected.
- If the gain is too high:
  Noise caused by scratches and dust is heard and the operation becomes unstable.

SECTION 5
DIAGRAMS

5-1. BLOCK DIAGRAM



5-2. SEMICONDUCTOR LEAD LAYOUTS



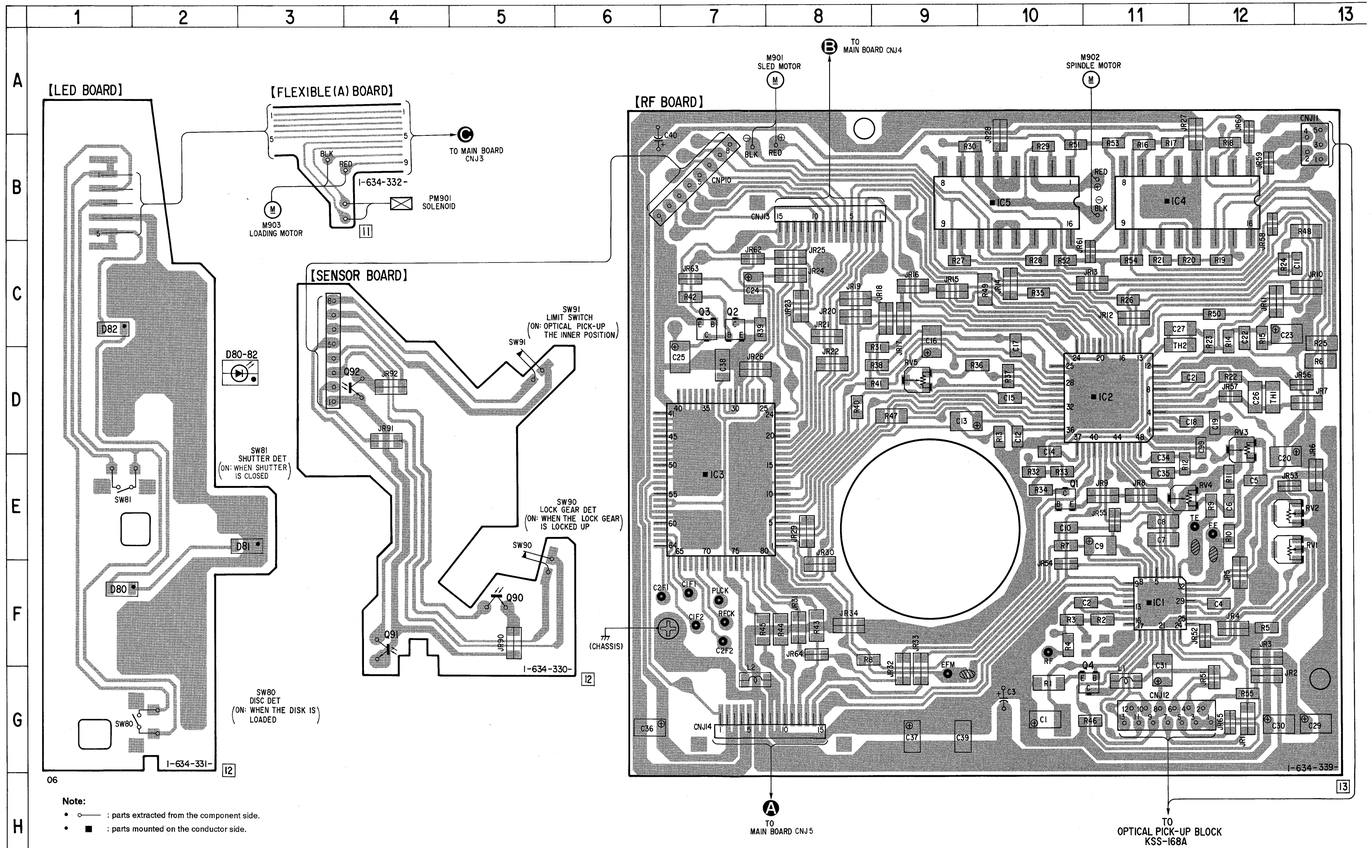
• SEMICONDUCTOR LOCATION (MD Section)

Ref. No.	Location	Ref. No.	Location
D80	F-1	Q1	E-10
D81	E-3	Q2	C-7
D82	C-1	Q3	C-7
		Q4	G-10
IC1	F-11	Q90	F-5
IC2	D-11	Q91	F-4
IC3	E-7	Q92	D-4
IC4	B-11		
IC5	B-10		

• SEMICONDUCTOR LOCATION (MAIN Section)

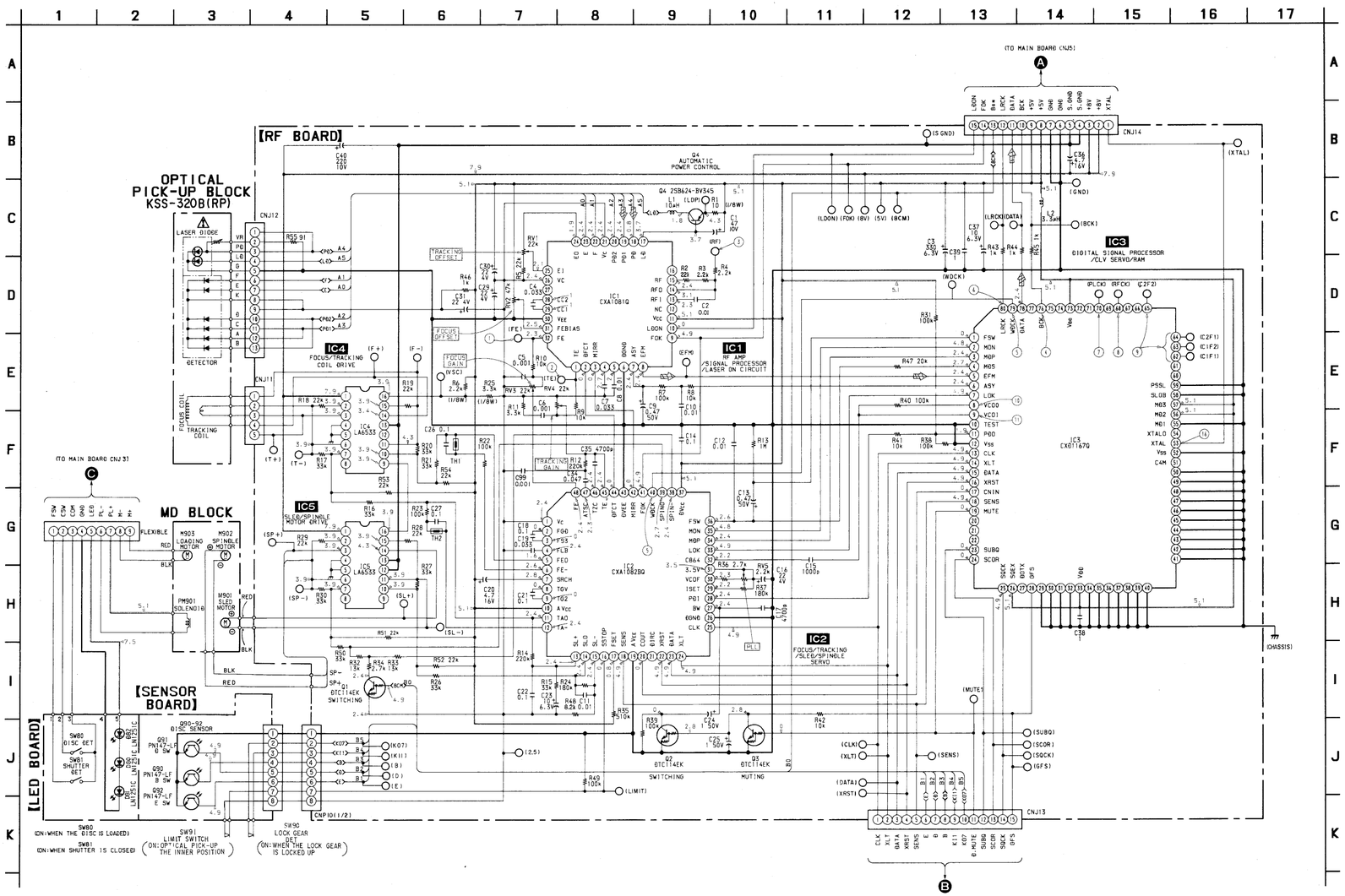
Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D101	F-5	D806	B-19	IC801	B-7
D103	H-5	D807	B-19		
D110	K-9	D808	C-19	Q101	D-17
D201	F-5	D809	B-18	Q102	F-6
D203	F-5	D810	B-18	Q201	D-17
D210	K-10	D811	B-17	Q202	F-6
D301	E-4	D812	B-17	Q401	F-7
D310	K-9	D813	A-12	Q402	G-7
D402	E-7	D814	C-13	Q403	E-10
D403	E-9	D815	C-18	Q404	E-10
D404	E-9	D816	C-17	Q405	E-16
D406	E-6	D817	C-16	Q406	F-15
D407	E-5	D818	C-15	Q407	E-15
D408	E-7	D819	C-14	Q410	E-16
D409	E-7	D820	C-13	Q414	E-14
D410	F-7	D821	A-16	Q415	F-14
D411	E-5			Q416	E-13
D412	F-7	HIC601	J-9	Q417	E-7
D413	F-7	IC101	I-2	Q418	E-15
D414	E-4	IC102	G-4	Q419	E-5
D416	E-3	IC103	G-4	Q420	E-19
D501	J-5	IC104	H-5	Q421	F-3
D502	J-5	IC201	I-2	Q422	F-7
D503	J-5	IC202	F-4	Q423	E-17
D504	J-5	IC203	G-4	Q424	F-5
D505	K-4	IC204	G-6	Q425	F-5
D506	G-1	IC301	K-2	Q428	E-19
D507	F-2	IC302	H-6	Q429	E-2
D509	J-5	IC303	G-3	Q430	F-2
D510	F-2	IC304	G-17	Q501	J-15
D511	F-2	IC305	E-4	Q503	K-4
D521	H-16	IC306	J-2	Q504	F-1
D601	I-9	IC307	F-4	Q601	G-10
D602	I-8	IC401	E-3	Q602	G-9
D603	I-8	IC402	E-2	Q603	G-9
D604	I-8	IC403	F-10	Q604	H-9
D703	D-8	IC501	I-6	Q605	G-10
D801	A-20	IC502	J-18	Q606	G-8
D802	A-16	IC503	G-2	Q607	H-9
D803	B-20	IC504	I-7	Q609	J-9
D804	B-20	IC601	J-8	Q801	B-2
D805	B-20	IC701	D-6	Q802	B-2

5-3. PRINTED WIRING BOARDS (MD Section)



5-4. SCHEMATIC DIAGRAM (MD Section)

- See page 33 for IC BLOCK DIAGRAMS.
- See page 35 for WAVEFORMS.



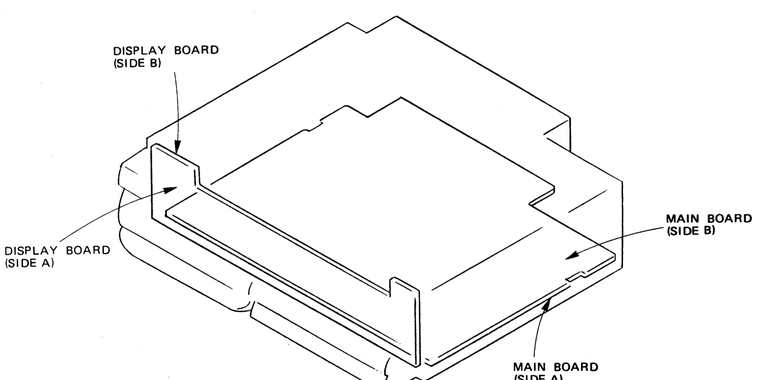
Note: (MAIN SECTION)

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/16 W or less unless otherwise specified.
- △ : internal component.
- ○ ——— : B+ line.
- ○ Power voltage is dc 14.4V and fed with regulated dc power supply from ACC and BACK UP.
- ○ Voltage and waveforms are dc with respect to ground under no -signal conditions.
  no mark : FM
  ( ) : CD PLAY
  《 》: AM
- ○ Voltages are taken with a VOM. (Input impedance 10MΩ)
  Voltage variations may be noted due to normal production tolerances.
- ○ Waveforms are taken with a oscilloscope.
  Voltage variations may be noted due to normal production tolerances.
- ○ Circled numbers refer to waveforms.
- ○ Signal path.
  ⇨ : FM
  ⇛ : CD
  ⇛ : AUX

Note: (MD SECTION)

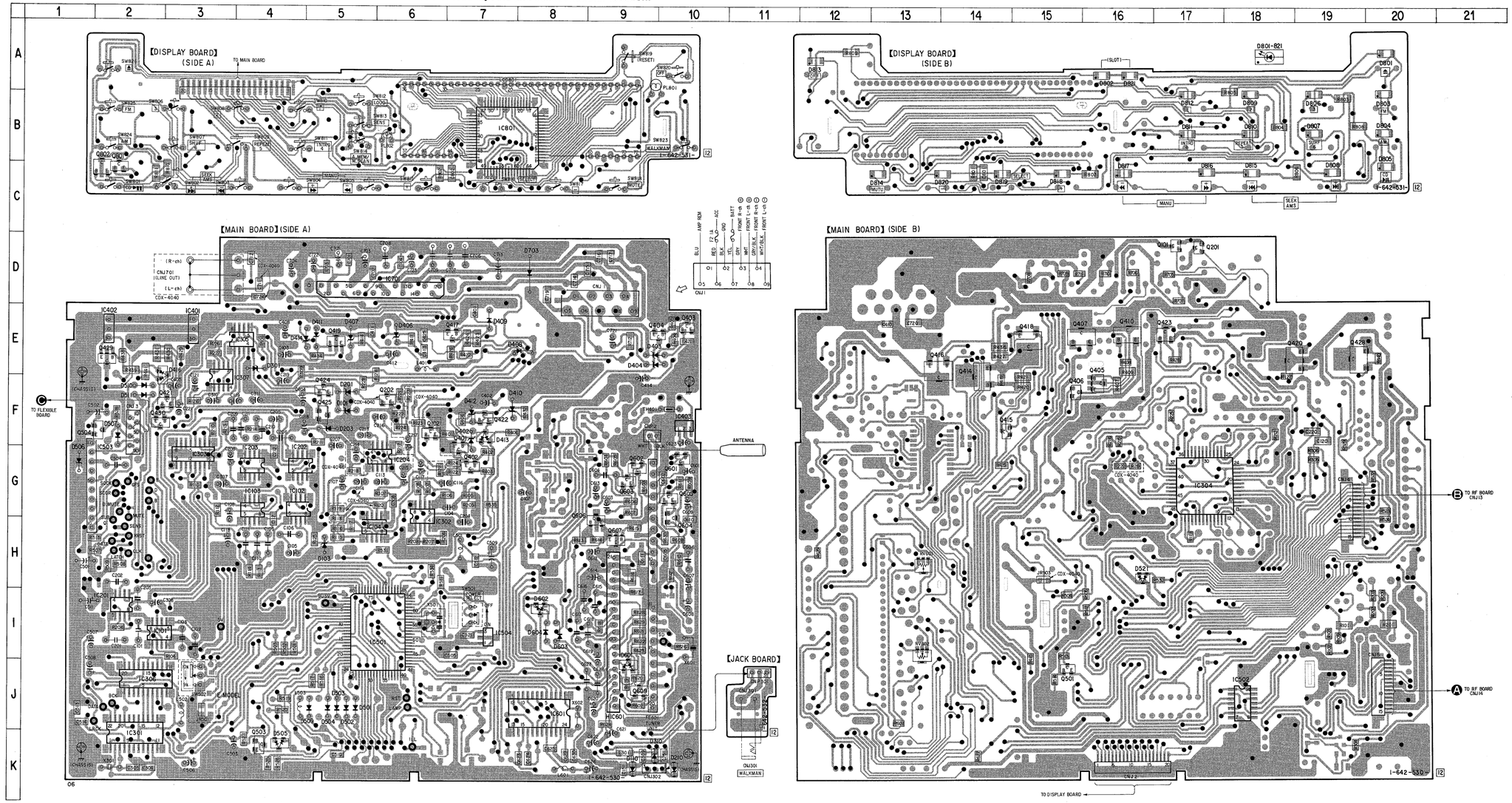
- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/16 W or less unless otherwise specified.
- ○ ——— : B+ line.
- ○ Power voltage is dc 14.4V and fed with regulated dc power supply from ACC and BACK UP.
- ○ Voltage and waveforms are dc with respect to ground under no -signal conditions.
  no mark : CD PLAY
- ○ Circled numbers refer to waveforms.
- ○ Signal path.
  ⇛ : CD

5-5. CIRCUIT BOARDS LOCATION



5-6. PRINTED WIRING BOARDS (MAIN Section)

• See page 17 for semiconductor lead layouts and semiconductor location.

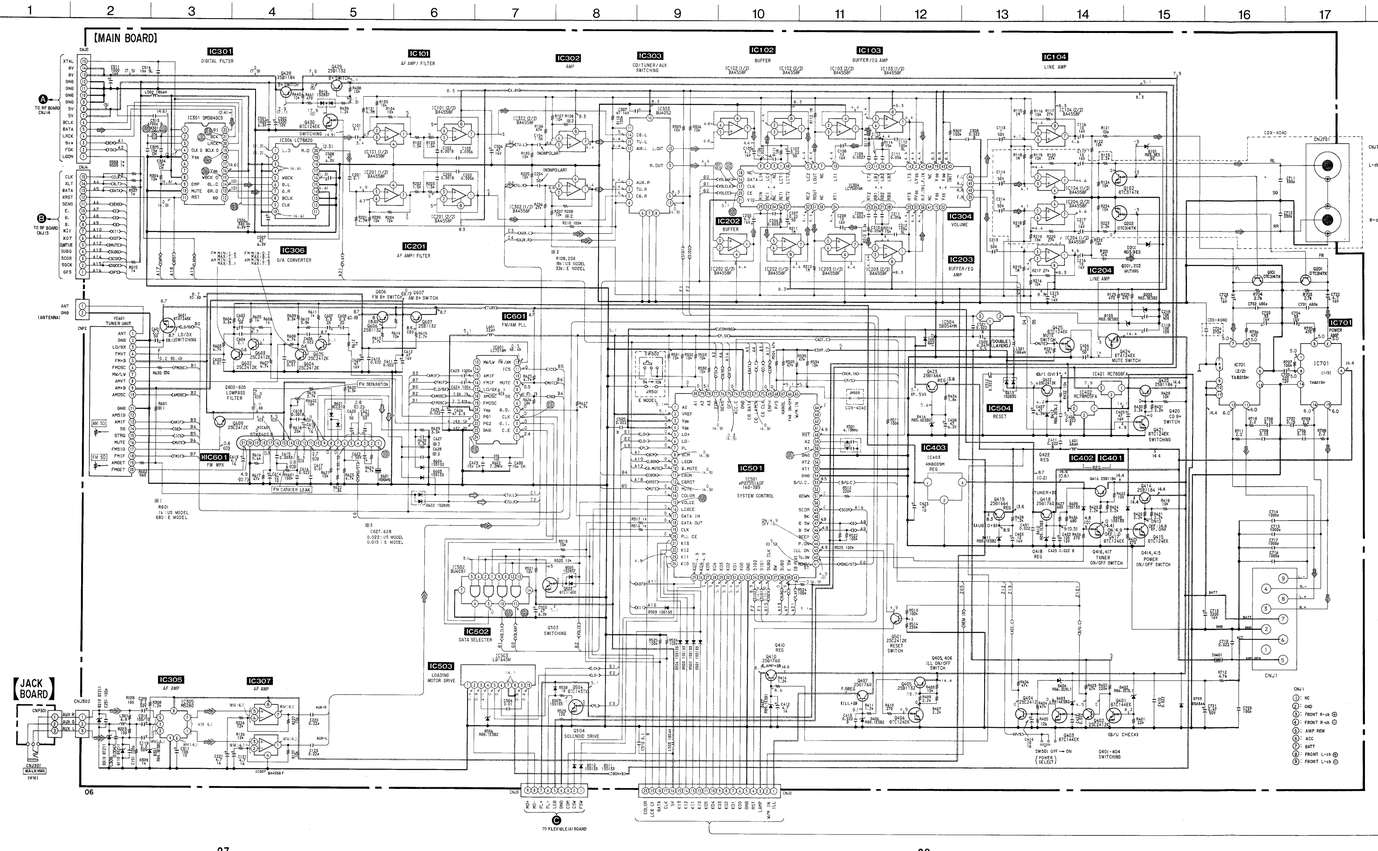


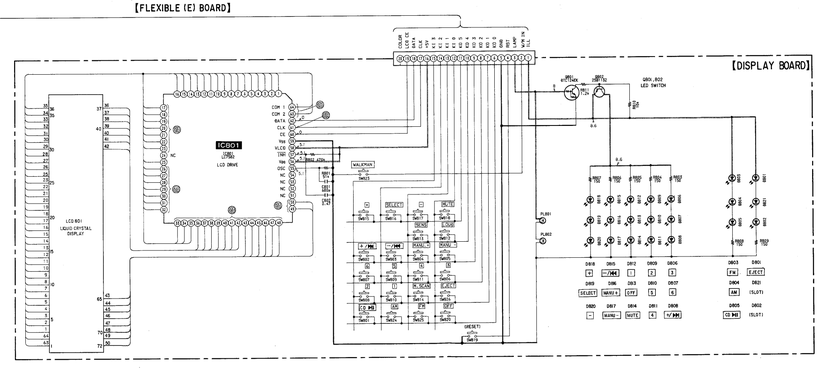
Note:

- ○—— : parts extracted from the component side.
- ■ : parts mounted on the conductor side.
- ● : Through hole.
- ▨ : Pattern from the side which enables seeing.
  (The other layers patterns are not indicated.)

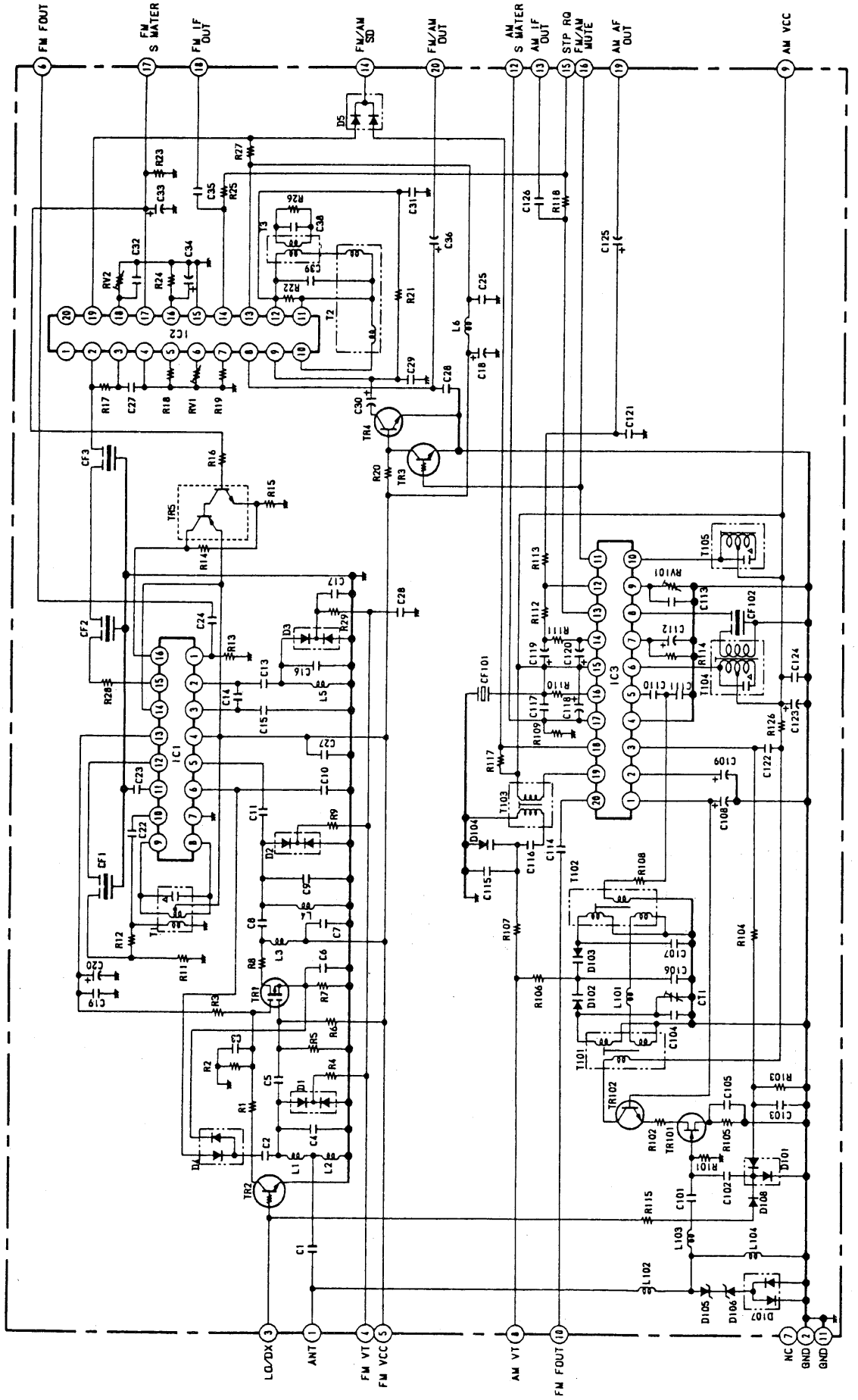
5-7. SCHEMATIC DIAGRAM (MAIN Section)

• See page 23 for note. • See page 33 for IC BLOCK DIAGRAMS. • See page 35 for WAVEFORMS.



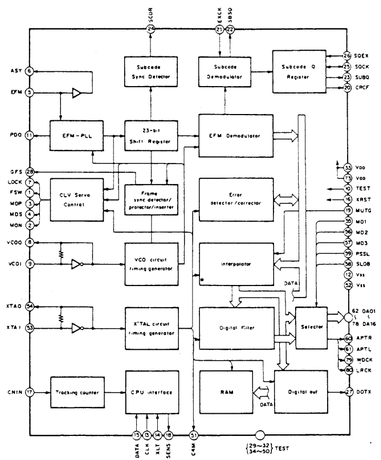


5-8. SCHEMATIC DIAGRAM (TUNER Unit FE601)

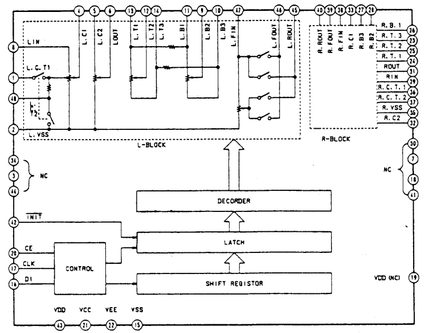


5-9. IC BLOCK DIAGRAM

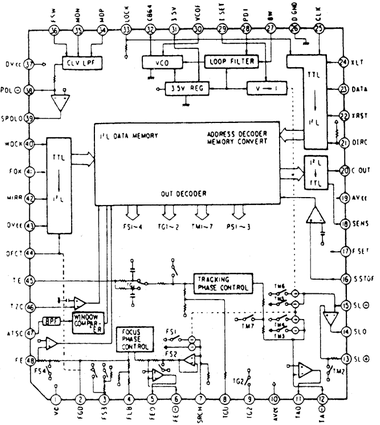
● IC3
CXD1167Q



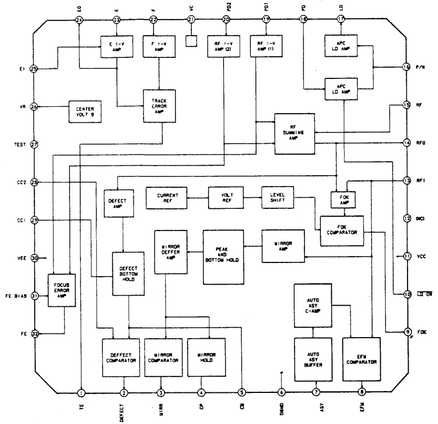
● IC304
LC7537AN



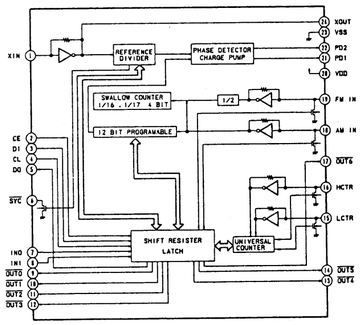
● IC2
CXA1082BQ



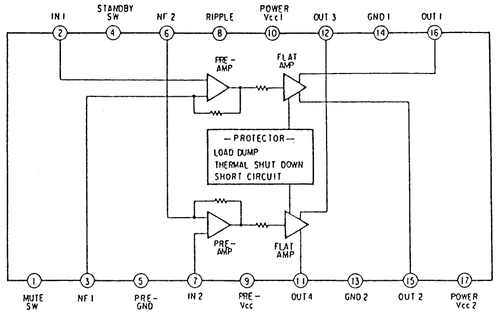
● IC1
CXA1081Q



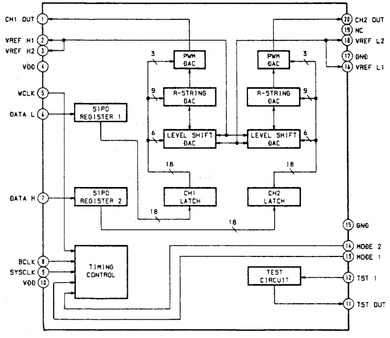
● IC601
LC7218M



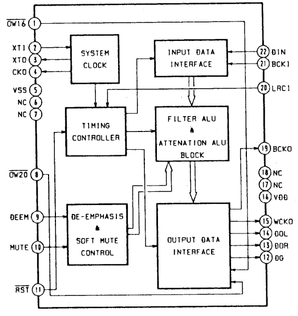
● IC701
TA8215H



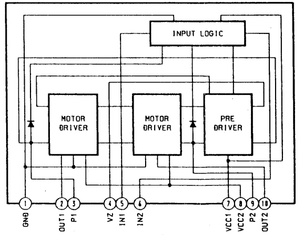
● IC306
LC78820M



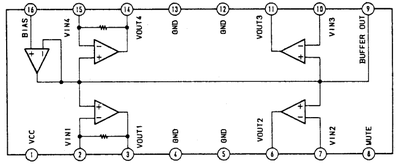
● IC301
SM5840CS



● IC503
LB1645N

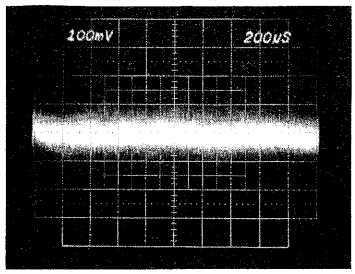


● IC4. 5
LA6533

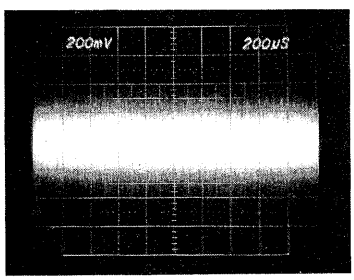


5-10. WAVEFORMS

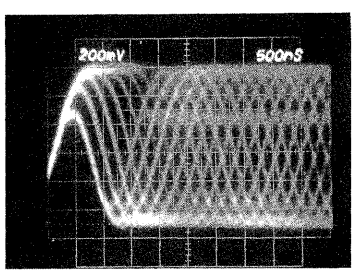
①



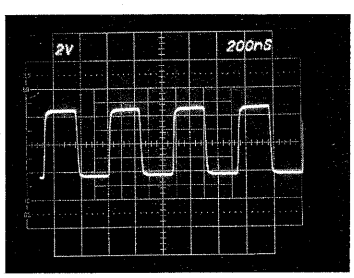
②



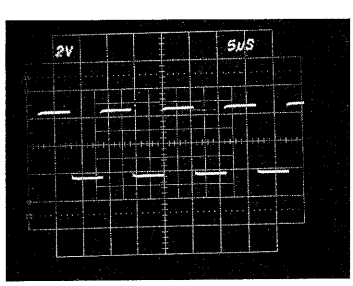
③



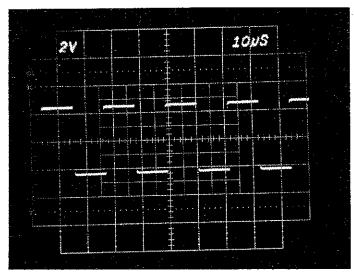
④



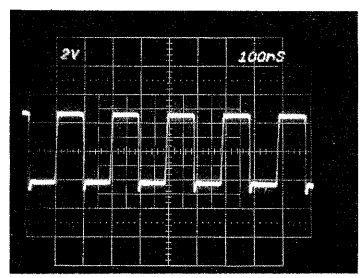
⑤



⑥



⑦



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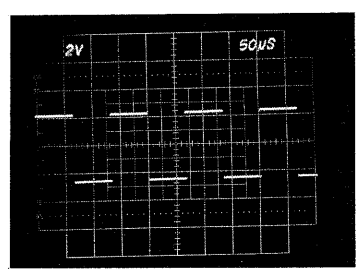

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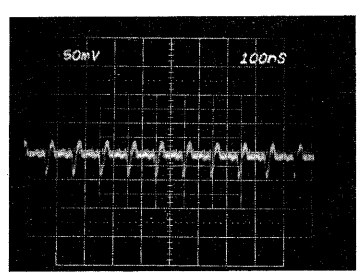

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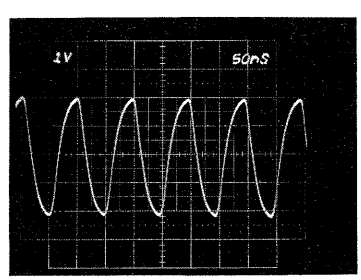

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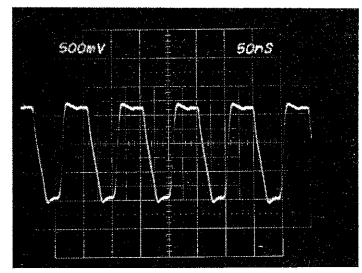

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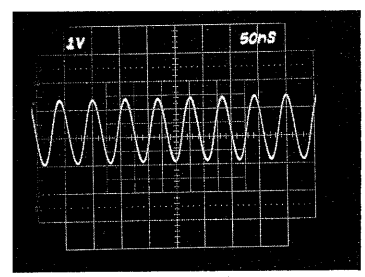

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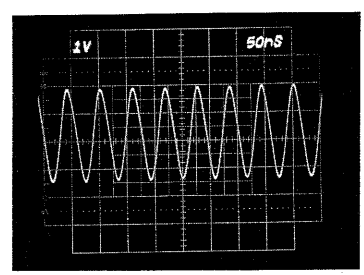

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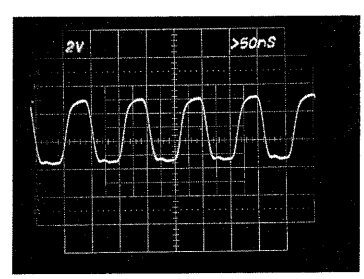

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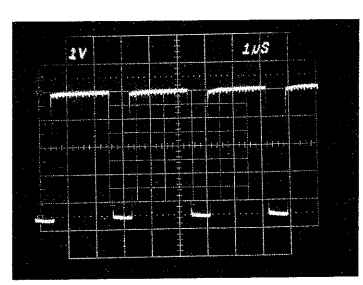

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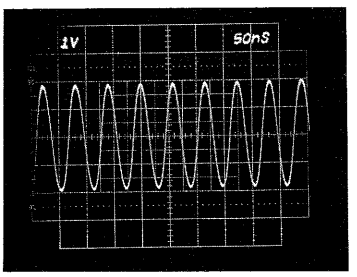
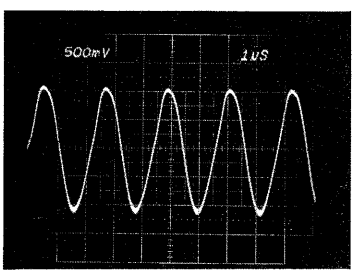
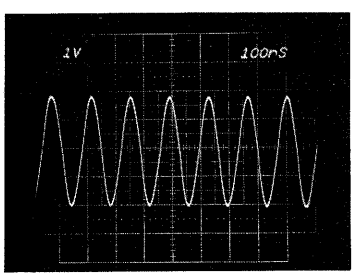

1V
50nS

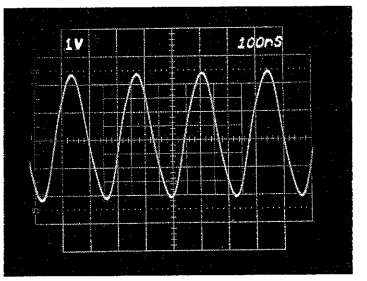
⑰


500mV
1uS

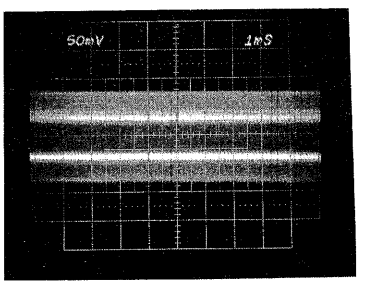
⑱


1V
100nS

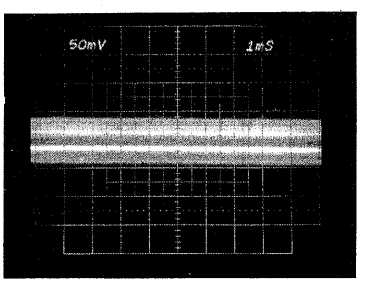
⑳


1V
100nS

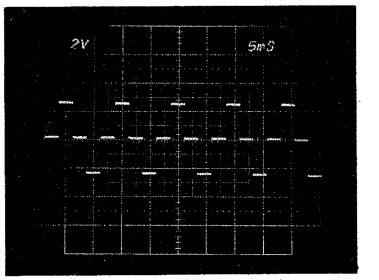
㉑


50mV
1mS

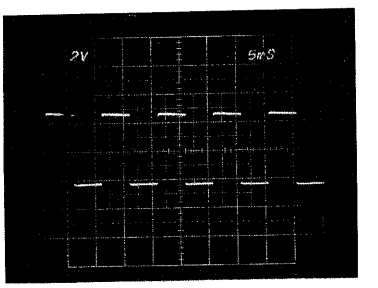
㉒


50mV
1mS

㉓


2V
5mS

㉔


2V
5mS

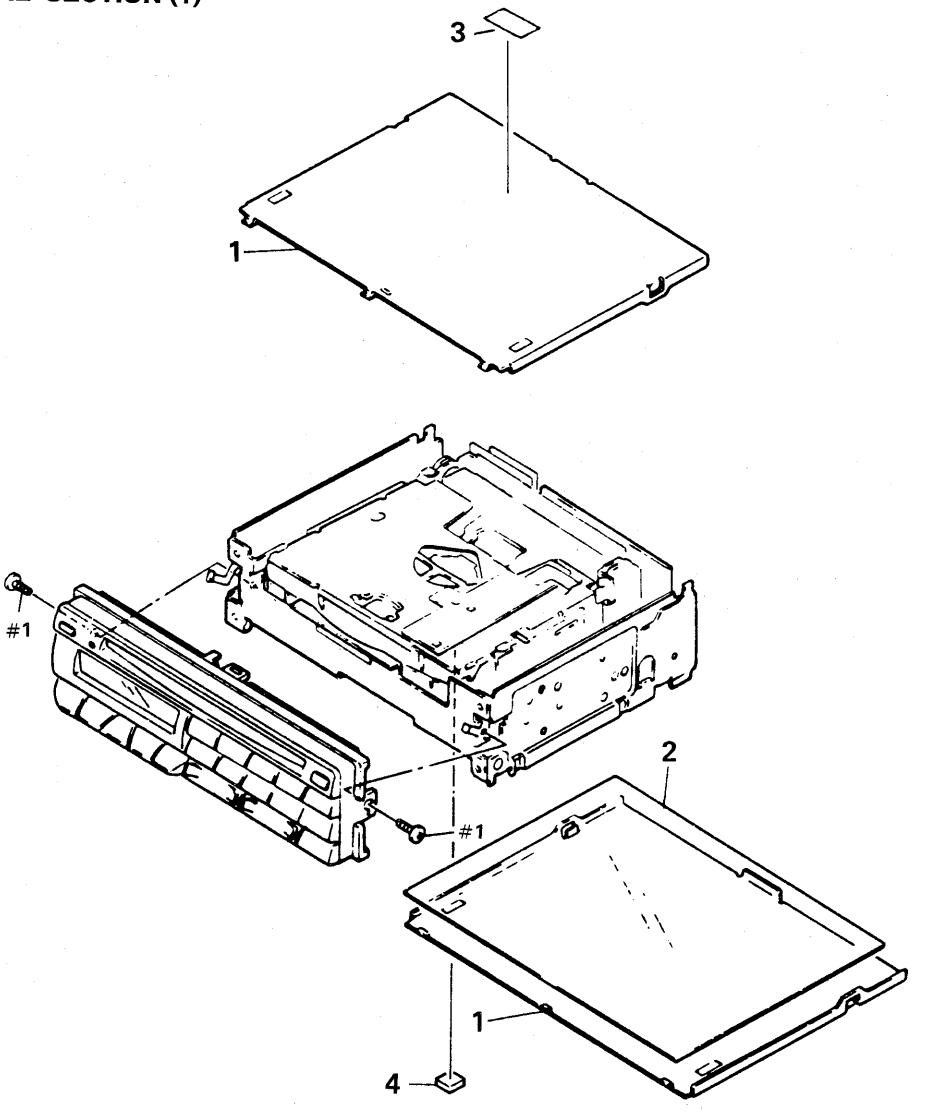
SECTION 6
EXPLODED VIEWS

NOTE:

- -XX,-X mean standardized parts, so they may have some difference from the original one.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of this parts list.

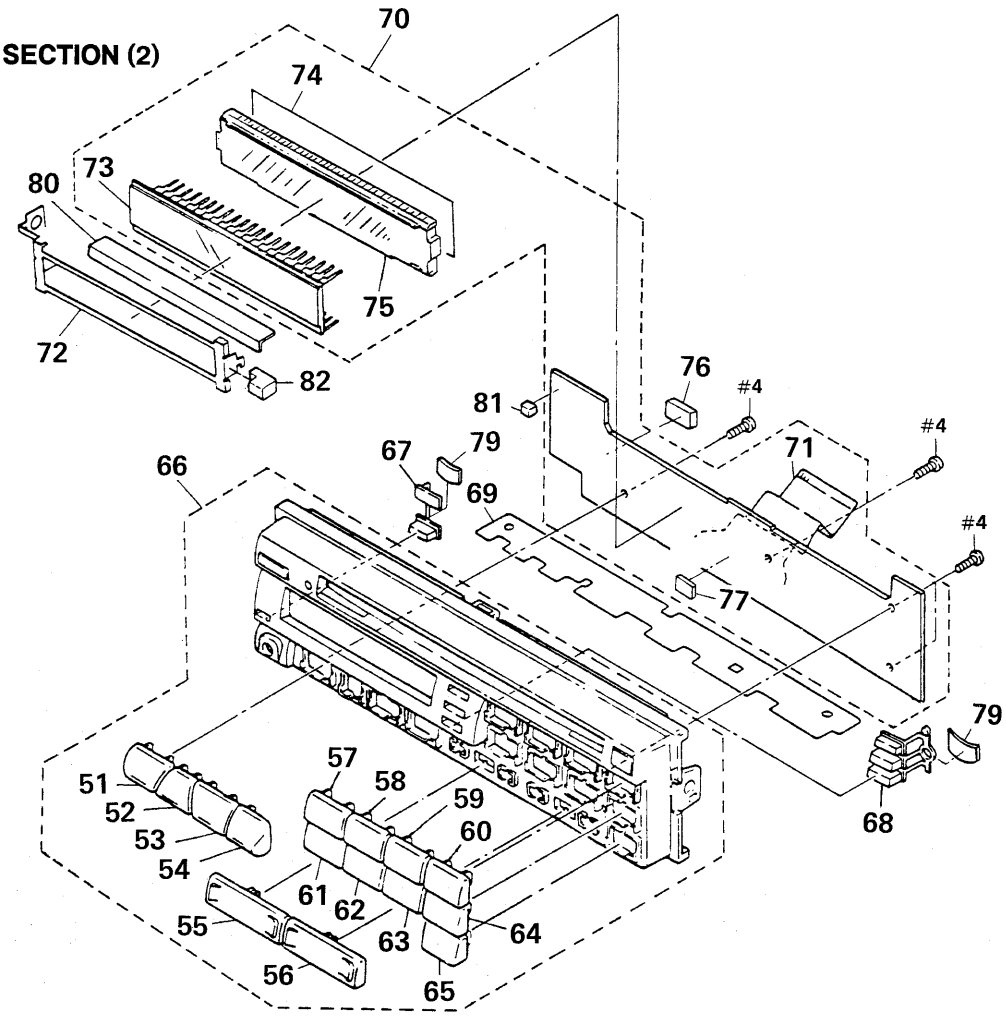
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

1. GENERAL SECTION (1)



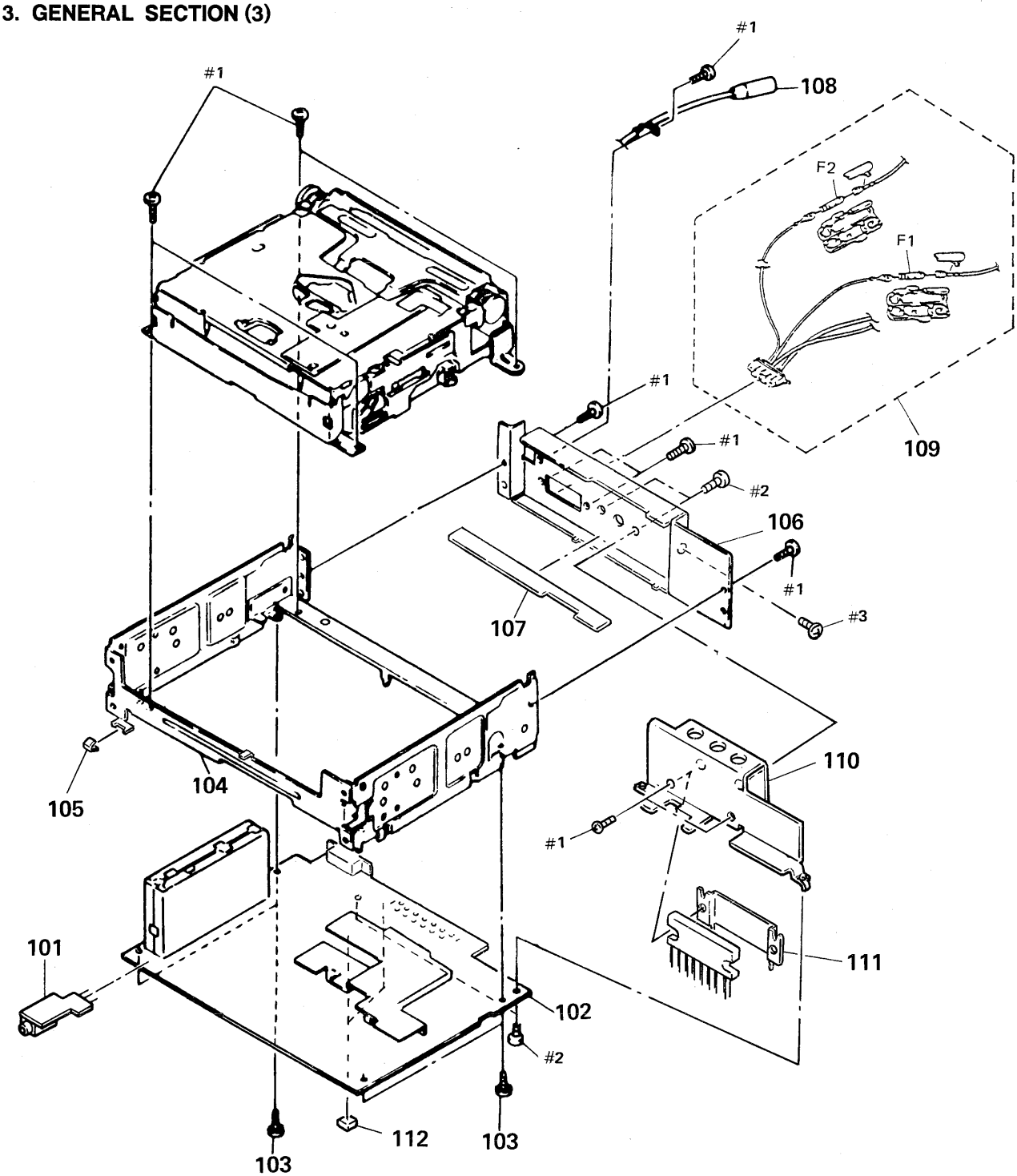
Ref. No.	Part No.	Description	Remark
* 1	3-355-249-01	COVER	
* 2	3-355-254-01	SHEET, INSULATING	
* 3	3-375-178-01	LABEL, MODEL NUMBER (CDX-4040:US)	
* 3	3-375-177-01	LABEL, MODEL NUMBER (EXCD-40)	
* 3	3-383-621-01	LABEL, MODEL NUMBER (CDX-4040:E)	
4	9-911-841-XX	CUSHION, CASSETTE LID	

2. GENERAL SECTION (2)



Ref.No.	Part No.	Description		Remark
51	3-371-647-01	BUTTON (MUTE)	(CDX-4040)	
51	3-371-647-21	BUTTON (MUTE)	(EXCD-40)	
52	3-371-648-01	BUTTON (-)	(CDX-4040)	
52	3-371-648-11	BUTTON (-)	(EXCD-40)	
53	3-371-649-01	BUTTON (SELECT)	(CDX-4040)	
53	3-371-649-11	BUTTON (SELECT)	(EXCD-40)	
54	3-371-650-01	BUTTON (+)	(CDX-4040)	
54	3-371-650-11	BUTTON (+)	(EXCD-40)	
55	3-365-989-01	BUTTON (MANU)	(CDX-4040)	
55	3-365-989-11	BUTTON (MANU)	(EXCD-40)	
56	3-365-990-01	BUTTON (SEEK/AMS)	(CDX-4040)	
56	3-365-990-11	BUTTON (SEEK/AMS)	(EXCD-40)	
57	3-365-986-01	BUTTON (1/↳)	(CDX-4040)	
57	3-375-179-01	BUTTON (1/↳)	(EXCD-40)	
58	3-365-986-11	BUTTON (2)	(CDX-4040)	
58	3-375-179-11	BUTTON (2)	(EXCD-40)	
59	3-365-986-21	BUTTON (3)	(CDX-4040)	
59	3-375-179-21	BUTTON (3)	(EXCD-40)	
60	3-365-987-11	BUTTON (FM)	(CDX-4040)	
60	3-365-987-41	BUTTON (FM)	(EXCD-40)	
61	3-365-986-31	BUTTON (4/INTRO)	(CDX-4040)	
61	3-375-179-31	BUTTON (4/INTRO)	(EXCD-40)	
62	3-365-986-41	BUTTON (5/REPEAT)	(CDX-4040)	
62	3-375-179-41	BUTTON (5/REPEAT)	(EXCD-40)	
63	3-365-986-51	BUTTON (6/SHUF)	(CDX-4040)	
63	3-375-179-51	BUTTON (6/SHUF)	(EXCD-40)	
64	3-365-987-01	BUTTON (AM)	(CDX-4040)	
64	3-365-987-31	BUTTON (AM)	(EXCD-40)	
65	3-365-988-01	BUTTON (CD/▶/▮▮)	(CDX-4040)	
65	3-365-988-11	BUTTON (CD/▶/▮▮)	(EXCD-40)	
66	X-3364-438-1	PANEL ASSY, FRONT	(CDX-4040)	
66	X-3364-437-1	PANEL ASSY, FRONT	(EXCD-40)	
67	3-365-995-31	BUTTON (WALKMAN)	(CDX-4040)	
67	3-365-995-21	BUTTON (WALKMAN)	(EXCD-40)	
68	3-365-996-01	BUTTON (LOUD, SENS, A. MEM/M. SCAN)	(CDX-4040)	
68	3-365-996-11	BUTTON (LOUD, SENS, A. MEM/M. SCAN)	(EXCD-40)	
* 69	3-365-993-01	PLATE (BUTTON), SHIELD		
* 70	A-3273-720-A	DISPLAY BOARD, COMPLETE		
71	1-638-128-11	(E) FLEXIBLE BOARD		
* 72	3-365-994-01	PLATE (LCD), GROUND		
73	1-808-983-11	DISPLAY PANEL, LIQUID CRYSTAL		
74	3-345-373-01	SHEET (DIFFUSION)		
* 75	X-3362-646-1	HOLDER ASSY, LCD		
* 76	3-376-006-01	CUSHION (D)		
* 77	4-918-544-11	SPACER (T)		
79	3-831-441-XX	SPACER		
* 80	3-360-109-01	SHEET (LCD), INSULATING		
81	9-911-841-XX	CUSHION, CASSETTE LID		
82	3-368-311-01	CUSHION (LCD)		

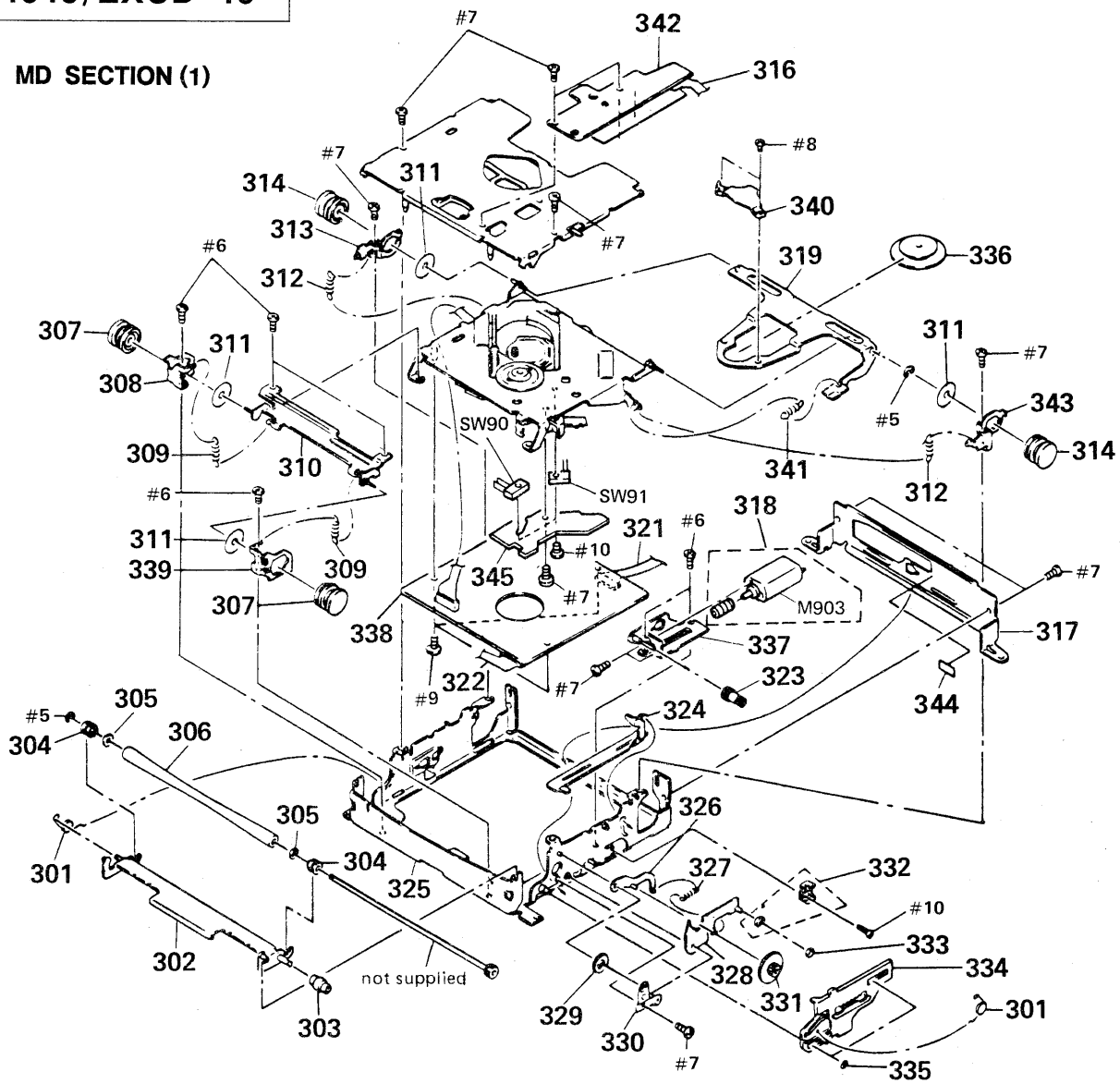
3. GENERAL SECTION (3)



Ref. No.	Part No.	Description	Remark
* 101	1-642-532-11	JACK BOARD	
* 102	A-3222-350-A	MAIN BOARD, COMPLETE (CDX-4040:US)	
* 102	A-3222-482-A	MAIN BOARD, COMPLETE (CDX-4040:E)	
* 102	A-3222-352-A	MAIN BOARD, COMPLETE (EXCD-40)	
103	3-344-501-11	SCREW (+ PTT 3X8), GROUND POINT	
* 104	X-3364-436-1	CHASSIS ASSY	
* 105	3-369-505-01	COVER (J)	
* 106	3-375-017-01	PANEL, BACK	
* 107	3-375-730-02	SHEET (B), INSULATING	
108	1-590-116-11	CORD (WITH CONNECTOR)	
109	1-690-573-11	CORD (WITH CONNECTOR) (Including F1, F2)	
* 110	3-375-018-01	HEAT SINK	
* 111	3-375-019-01	BRACKET (IC)	
112	9-911-841-XX	CUSHION, CASSETTE LID	
⚠F1	1-532-422-11	FUSE (6.3A)	
⚠F2	1-532-414-11	FUSE (1.0A)	

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

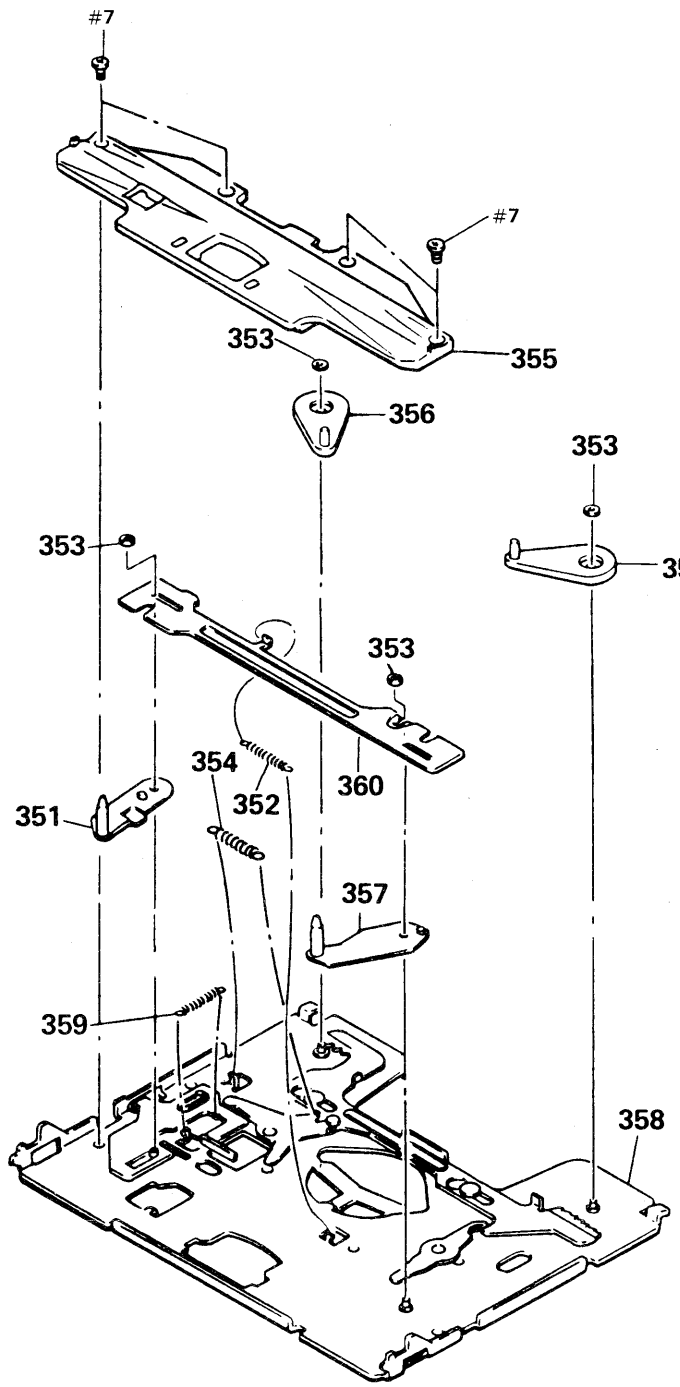
4. MD SECTION (1)



Ref. No.	Part No.	Description	Remark
301	3-351-437-01	SPRING (ROLLER)	
* 302	X-3351-422-1	BRACKET (ROLLER) ASSY	
303	3-351-495-01	SLEEVE (2)	
304	3-351-416-01	BEARING (ROLLER SHAFT)	
305	3-701-438-11	WASHER, 2.5	
306	3-323-231-11	ROLLER (LOWER)	
307	3-364-310-01	DAMPER (F)	
* 308	3-351-493-01	BRACKET (DUMPER B)	
309	3-351-444-01	SPRING (FLOATING A, B), TENSION	
* 310	X-3351-423-1	BRACKET (F) ASSY	
311	3-323-263-01	WASHER, TEFLON	
312	3-351-445-01	SPRING (FLOATING C, D), TENSION	
* 313	3-351-411-01	BRACKET (DAMPER D)	
314	3-330-929-11	DAMPER (S), HYPER	
* 316	1-634-332-11	(A) FLEXIBLE BOARD	
* 317	3-351-483-01	BRACKET (REAR A)	
318	A-3249-535-A	GEAR (A) ASSY	
* 319	3-351-453-01	ARM, CHUCKING	
321	1-634-333-11	(B) FLEXIBLE BOARD	
322	1-634-334-11	(C) FLEXIBLE BOARD	
323	3-351-498-01	GEAR (B, WORM WHEEL)	
* 324	X-3351-418-1	LEVER (CH RELEASE) ASSY	
* 325	X-3351-417-2	CHASSIS (MAIN) ASSY	

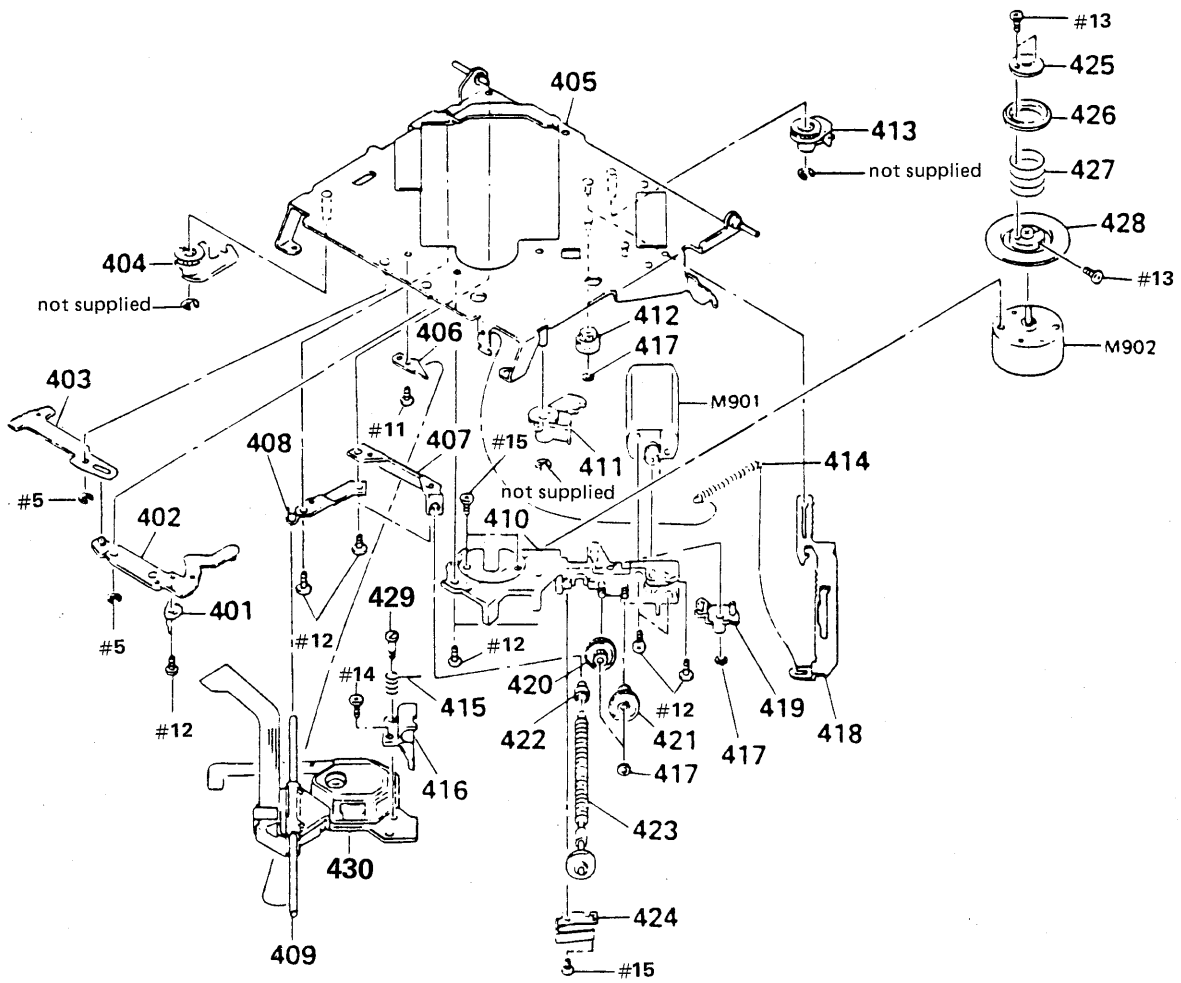
Ref. No.	Part No.	Description	Remark
* 326	X-3351-420-1	LEVER (GEAR C) ASSY	
327	3-351-463-01	SPRING (SW LEVER 2), TENSION	
* 328	X-3351-421-1	LEVER (SW) ASSY	
329	3-351-414-01	GEAR (C)	
* 330	3-351-482-01	RETAINER (SIDE GEAR 2)	
331	3-351-438-01	GEAR, CAM	
332	1-454-461-11	SOLENOID, PLUNGER	
333	3-315-384-11	WASHER, STOPPER	
334	3-351-456-01	LEVER (L, E)	
335	3-578-224-00	WASHER	
336	3-348-558-01	PLATE (F), CHUCK	
* 337	X-3351-419-1	BRACKET (M) ASSY	
* 338	A-3279-978-A	RF BOARD, COMPLETE	
* 339	3-351-492-01	BRACKET (DUMPER A)	
340	3-342-625-01	RETAINER (S2), THRUST	
341	3-351-443-01	SPRING (CHUCKING), TENSION	
342	1-634-331-11	LED BOARD	
* 343	3-351-494-01	BRACKET (DUMPER C)	
* 344	3-351-464-01	SHEET (SM), INSULATING	
* 345	1-634-330-11	SENSOR BOARD	
M903	X-3165-836-1	MOTOR ASSY	
SW90	1-554-938-11	SWITCH, LEAF	
SW91	1-554-938-11	SWITCH, LEAF	

5. MD SECTION (2)



Ref. No.	Part No.	Description	Remark
* 351	X-3351-426-1	LEVER (D DETECTION R2) ASSY	
352	3-351-447-02	SPRING (JOINT F), TENSION	
353	3-578-224-00	WASHER	
354	3-351-446-01	SPRING (JOINT R), TENSION	
355	3-351-496-01	GUIDE (DISK 2)	
356	3-351-432-01	GEAR (DS)	
* 357	X-3351-425-1	LEVER (D DETECTION L2) ASSY	
* 358	X-3351-424-1	CHASSIS (T2) ASSY	
359	3-351-448-01	SPRING (LOCK LEVER), TENSION	
* 360	3-351-489-02	JOINT (F2)	

6. MD SECTION (3)



Ref.No.	Part No.	Description	Remark
* 401	2-643-407-01	PLATE, SWITCH	
* 402	X-2641-534-1	LEVER (A) ASSY, LOCK	
* 403	2-641-582-01	LEVER (B), LOCK	
404	2-643-414-02	GEAR (B), LOCK	
* 405	X-2641-536-2	CHASSIS ASSY, MAIN	
406	2-643-402-01	RETAINER (B), SHAFT	
407	2-643-403-01	RETAINER, FEED SCREW	
408	2-643-401-01	RETAINER (A), SHAFT	
409	2-640-632-01	SHAFT, GUIDE	
* 410	X-2641-535-2	CHASSIS ASSY, SUB	
411	2-643-413-02	GEAR (A), LOCK	
412	2-643-405-01	WHEEL, WORM	
413	2-641-599-05	GEAR (C), GEAR	
414	2-641-595-02	SPRING, TENSION	
415	2-643-420-01	SPRING	
416	2-625-272-02	NUT, FEED	

Ref.No.	Part No.	Description	Remark
417	3-321-813-01	WASHER, COTTER POLYETHYLENE	
* 418	X-2641-546-1	LEVER (C) ASSY, LOCK	
419	2-643-406-02	LEVER, SELECTION	
420	2-643-410-01	GEAR (E)	
421	2-643-409-01	GEAR (D)	
422	2-643-408-02	RETAINER, THRUST	
423	A-4910-184-E	SCREW ASSY, FEED	
424	2-643-404-01	SPRING	
425	2-640-650-02	STOPPER, RING	
426	2-643-418-01	RING, CENTER	
427	2-640-617-02	SPRING, COMPRESSION	
428	X-2641-545-1	TURNTABLE ASSY	
429	2-643-423-01	SCREW, SP	
⚠430	8-848-224-11	DEVICE, OPTICAL KSS-320B(RP)	
M901	A-4910-183-A	MOTOR ASSY, SL(SLED)	
M902	1-541-448-41	MOTOR (SPINDLE)	

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

DISPLAY

SECTION 7
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the part specified in the diagrams or the components used on the set.
- -XX,-X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms
  METAL : Metal-film resistor
  METAL OXIDE : Metal Oxide-film resistor
  F : nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case,u : μ ,for example :
  uA... : μA..., uPA... : μPA...,
  uPB... : μPB..., uPC... : μPC...,
  uPD... : μPD...
- CAPACITORS
  uF : μF
- COILS
  uH : μH

When indicating parts by reference number, please include the board name.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref.No.	Part No.	Description	Remark
*	A-3273-720-A	DISPLAY BOARD, COMPLETE **********	
	1-638-128-11	FLEXIBLE (E) BOARD	
	3-345-373-01	SHEET (DIFFUSION)	
		< CAPACITOR >	
C801	1-163-201-00	CERAMIC CHIP 680PF 5%	50V
C802	1-162-637-11	CERAMIC CHIP 0.47uF	16V
		< DIODE >	
D801	8-719-987-41	LED CL-150Y-CD (⏏)	
D802	8-719-987-41	LED CL-150Y-CD (SLOT)	
D803	8-719-987-41	LED CL-150Y-CD (FM)	
D804	8-719-987-41	LED CL-150Y-CD (AM)	
D805	8-719-987-41	LED CL-150Y-CD (CD/▶/⏸)	
D806	8-719-987-41	LED CL-150Y-CD (3)	
D807	8-719-987-41	LED CL-150Y-CD (6)	
D808	8-719-987-41	LED CL-150Y-CD (+/⏭)	
D809	8-719-987-41	LED CL-150Y-CD (2)	
D810	8-719-987-41	LED CL-150Y-CD (5)	
D811	8-719-987-41	LED CL-150Y-CD (4)	
D812	8-719-987-41	LED CL-150Y-CD (1)	
D813	8-719-987-41	LED CL-150Y-CD (OFF)	
D814	8-719-987-41	LED CL-150Y-CD (MUTE)	
D815	8-719-987-41	LED CL-150Y-CD (-/⏮)	
D816	8-719-987-41	LED CL-150Y-CD (MANU +)	
D817	8-719-987-41	LED CL-150Y-CD (MANU -)	
D818	8-719-987-41	LED CL-150Y-CD (+)	
D819	8-719-987-41	LED CL-150Y-CD (SELECT)	
D820	8-719-987-41	LED CL-150Y-CD (-)	
D821	8-719-987-41	LED CL-150Y-CD (SLOT)	

Ref.No.	Part No.	Description	Remark
		<IC>	
IC801	8-759-821-44	IC LC7582	
		< PILOT LAMP >	
PL801	1-518-646-11	LAMP, PILOT	
PL802	1-518-646-11	LAMP, PILOT	
		< TRANSISTOR >	
Q801	8-729-901-00	TRANSISTOR DTC124EK	
Q802	8-729-106-60	TRANSISTOR 2SB1115A-YQ	
		< RESISTOR >	
R801	1-216-239-00	METAL GLAZE 51K 5%	1/8W
R802	1-216-262-00	METAL GLAZE 470K 5%	1/8W
R803	1-216-178-00	METAL GLAZE 150 5%	1/8W
R804	1-216-178-00	METAL GLAZE 150 5%	1/8W
R805	1-216-178-00	METAL GLAZE 150 5%	1/8W
R806	1-216-178-00	METAL GLAZE 150 5%	1/8W
R807	1-216-178-00	METAL GLAZE 150 5%	1/8W
R808	1-216-178-00	METAL GLAZE 150 5%	1/8W
R809	1-216-178-00	METAL GLAZE 150 5%	1/8W
R810	1-216-222-00	METAL GLAZE 10K 5%	1/8W
R811	1-216-200-00	METAL GLAZE 1.2K 5%	1/8W
		<SWITCH>	
SW801	1-572-704-21	SWITCH, KEY BOARD (CD/▶/⏸)	
SW802	1-572-704-21	SWITCH, KEY BOARD (+/⏭)	
SW803	1-572-704-21	SWITCH, KEY BOARD (-/⏮)	
SW804	1-572-704-21	SWITCH, KEY BOARD (MANU +)	
SW805	1-572-704-21	SWITCH, KEY BOARD (MANU -)	
SW806	1-572-704-21	SWITCH, KEY BOARD (3)	
SW807	1-572-704-21	SWITCH, KEY BOARD (6)	

DISPLAY **JACK** **LED** **MAIN**

Ref.No.	Part No.	Description	Remark
SW808	1-572-704-21	SWITCH, KEY BOARD (2)	
SW809	1-572-704-21	SWITCH, KEY BOARD (5)	
SW810	1-572-704-21	SWITCH, KEY BOARD (1)	
SW811	1-572-704-21	SWITCH, KEY BOARD (4)	
SW812	1-572-704-21	SWITCH, KEY BOARD (LOUD)	
SW813	1-572-704-21	SWITCH, KEY BOARD (SENS)	
SW814	1-572-704-21	SWITCH, KEY BOARD (M. SCAN/A. MEM)	
SW815	1-572-704-21	SWITCH, KEY BOARD (+)	
SW816	1-572-704-21	SWITCH, KEY BOARD (SELECT)	
SW817	1-572-704-21	SWITCH, KEY BOARD (-)	
SW818	1-572-704-21	SWITCH, KEY BOARD (MUTE)	
SW819	1-572-704-21	SWITCH, KEY BOARD (RESET)	
SW820	1-572-704-21	SWITCH, KEY BOARD (OFF)	
SW823	1-572-704-21	SWITCH, KEY BOARD (WALKMAN)	
SW824	1-572-704-21	SWITCH, KEY BOARD (AM)	
SW825	1-572-704-21	SWITCH, KEY BOARD (FM)	
SW826	1-572-704-21	SWITCH, KEY BOARD (⏏)	
		**********	
*	1-642-532-11	JACK BOARD	
		**********	
		< JACK >	
CNJ301	1-563-857-41	JACK, HEADPHONE (WALKMAN)	
		< CONNECTOR >	
CNP301	1-580-801-11	PIN, CONNECTOR 3P	
		**********	
*	1-634-331-11	LED BOARD	
		*********	
	1-634-332-11	(A) FLEXIBLE BOARD	
*	3-355-252-01	SHEET (MD), INSULATING	
		< DIODE >	
D80	8-719-404-19	DIODE LN1251C	
D81	8-719-404-19	DIODE LN1251C	
D82	8-719-404-19	DIODE LN1251C	
		< SWITCH >	
SW80	1-571-754-11	SWITCH, PUSH (1 KEY)	
SW81	1-571-754-11	SWITCH, PUSH (1 KEY)	
		**********	

Ref.No.	Part No.	Description	Remark
*	A-3222-350-A	MAIN BOARD, COMPLETE (CDX-4040:US)	
		**********	
*	A-3222-482-A	MAIN BOARD, COMPLETE (CDX-4040:E)	
		**********	
*	A-3222-352-A	MAIN BOARD, COMPLETE (EXCD-40:US)	
		**********	
*	3-375-018-01	HEAT SINK	
*	3-375-019-01	BRACKET (IC)	
	7-685-133-19	SCREW +P 2.6X6 TYPE2	
	7-621-770-67	SCREW +PTT 2.6X6 (S)	
		< CAPACITOR >	
C101	1-136-165-00	FILM 0.1uF 5% 50V	
C102	1-130-474-00	MYLAR 0.0018uF 5% 50V	
C103	1-130-480-00	MYLAR 0.0056uF 5% 50V	
C104	1-124-499-11	ELECT, NONPOLAR R 1uF 20% 50V	
C105	1-126-288-11	ELECT 4.7uF 20% 16V	
C106	1-130-477-00	MYLAR 0.0033uF 5% 50V	
C107	1-124-464-11	ELECT 0.22uF 20% 50V	
C108	1-126-157-11	ELECT 10uF 20% 16V	
C109	1-130-476-00	MYLAR 0.0027uF 5% 50V	
C110	1-136-162-00	FILM 0.056uF 5% 50V	
C111	1-136-162-00	FILM 0.056uF 5% 50V	
C112	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
C113	1-126-301-11	ELECT 1uF 20% 50V	
C114	1-126-301-11	ELECT 1uF 20% 50V (CDX-4040)	
C116	1-126-157-11	ELECT 10uF 20% 16V	
C117	1-126-157-11	ELECT 10uF 20% 16V (CDX-4040)	
C118	1-124-584-00	ELECT 100uF 20% 10V	
C119	1-124-257-00	ELECT 2.2uF 20% 50V	
C120	1-164-299-11	CERAMIC CHIP 0.22uF 10% 25V	
C121	1-126-288-11	ELECT 4.7uF 20% 16V	
C151	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
C201	1-136-165-00	FILM 0.1uF 5% 50V	
C202	1-130-474-00	MYLAR 0.0018uF 5% 50V	
C203	1-130-480-00	MYLAR 0.0056uF 5% 50V	
C204	1-124-499-11	ELECT, NONPOLAR R 1uF 20% 50V	
C205	1-126-288-11	ELECT 4.7uF 20% 16V	
C206	1-130-477-00	MYLAR 0.0033uF 5% 50V	
C207	1-124-464-11	ELECT 0.22uF 20% 50V	
C208	1-126-157-11	ELECT 10uF 20% 16V	
C209	1-130-476-00	MYLAR 0.0027uF 5% 50V	
C210	1-136-162-00	FILM 0.056uF 5% 50V	
C211	1-136-162-00	FILM 0.056uF 5% 50V	
C212	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
C213	1-126-301-11	ELECT 1uF 20% 50V	
C214	1-126-301-11	ELECT 1uF 20% 50V (CDX-4040)	

Ref.No.	Part No.	Description			Remark
C215	1-124-589-11	ELECT	47uF	20%	16V
C216	1-126-157-11	ELECT	10uF	20%	16V
C217	1-126-157-11	ELECT	10uF	20%	16V (CDX-4040)
C218	1-124-584-00	ELECT	100uF	20%	10V
C219	1-124-257-00	ELECT	2.2uF	20%	50V
C220	1-164-299-11	CERAMIC CHIP	0.22uF	10%	25V
C221	1-126-288-11	ELECT	4.7uF	20%	16V
C251	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C304	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C305	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C306	1-124-589-11	ELECT	47uF	20%	16V
C307	1-124-589-11	ELECT	47uF	20%	16V
C308	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C309	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C310	1-124-584-00	ELECT	100uF	20%	10V
C311	1-124-584-00	ELECT	100uF	20%	10V
C401	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C402	1-124-584-00	ELECT	100uF	20%	10V
C403	1-126-157-11	ELECT	10uF	20%	16V
C404	1-124-464-11	ELECT	0.22uF	20%	50V
C405	1-124-589-11	ELECT	47uF	20%	16V
C406	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C407	1-126-154-11	ELECT	47uF	20%	6.3V
C408	1-126-154-11	ELECT	47uF	20%	6.3V
C410	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C411	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C412	1-126-288-11	ELECT	4.7uF	20%	16V
C413	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C414	1-126-157-11	ELECT	10uF	20%	16V
C421	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C423	1-124-589-11	ELECT	47uF	20%	16V
C425	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C501	1-126-916-11	ELECT	1000uF	20%	6.3V
C502	1-126-927-11	ELECT	2200uF	20%	10V
C503	1-126-154-11	ELECT	47uF	20%	6.3V
C504	1-136-153-00	FILM	0.01uF	5%	50V
C505	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C506	1-128-057-11	ELECT	330uF	20%	6.3V
C507	1-126-154-11	ELECT	47uF	20%	6.3V
C508	1-126-154-11	ELECT	47uF	20%	6.3V
C509	1-125-559-11	CAP, DOUBLE LAYEYERS			0.047F
C510	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C511	1-124-360-00	ELECT	1000uF	20%	16V
C512	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C513	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C514	1-163-098-00	CERAMIC CHIP	16PF	5%	50V
C521	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C601	1-124-257-00	ELECT	2.2uF	20%	50V
C602	1-164-232-11	CERAMIC CHIP	0.01uF		50V

Ref.No.	Part No.	Description			Remark
C603	1-124-257-00	ELECT	2.2uF	20%	50V
C604	1-136-165-00	FILM	0.1uF	5%	50V
C605	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C606	1-163-157-00	FILM	0.022uF	5%	50V
C607	1-126-162-11	ELECT	3.3uF	20%	50V
C608	1-126-162-11	ELECT	3.3uF	20%	50V
C609	1-124-589-11	ELECT	47uF	20%	16V
C610	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C611	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C612	1-124-589-11	ELECT	47uF	20%	16V
C613	1-126-288-11	ELECT	4.7uF	20%	16V
C614	1-128-054-11	ELECT	22uF	20%	10V
C615	1-130-477-00	MYLAR	0.0033uF	5%	50V
C616	1-163-157-00	FILM	0.022uF	5%	50V
C617	1-136-153-00	FILM	0.01uF	5%	50V
C618	1-130-474-00	MYLAR	0.0018uF	5%	50V
C619	1-126-288-11	ELECT	4.7uF	20%	16V
C620	1-126-301-11	ELECT	1uF	20%	50V
C621	1-124-464-11	ELECT	0.22uF	20%	50V
C622	1-126-301-11	ELECT	1uF	20%	50V
C623	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C624	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C625	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C626	1-126-154-11	ELECT	47uF	20%	6.3V
C627	1-136-155-00	FILM	0.015uF	5%	50V (CDX-4040:E)
C627	1-163-157-00	FILM	0.022uF	5%	50V (CDX-4040:US/EXCD-40:US)
C628	1-136-155-00	FILM	0.015uF	5%	50V (CDX-4040:E)
C628	1-163-157-00	FILM	0.022uF	5%	50V (CDX-4040:US/EXCD-40:US)
C629	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C630	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C701	1-163-007-11	CERAMIC CHIP	680PF	10%	50V
C702	1-163-007-11	CERAMIC CHIP	680PF	10%	50V
C703	1-126-377-61	ELECT	33uF	20%	16V
C704	1-126-377-61	ELECT	33uF	20%	16V
C705	1-126-335-11	ELECT	220uF	20%	10V
C706	1-136-167-00	FILM	0.15uF	5%	50V
C707	1-136-167-00	FILM	0.15uF	5%	50V
C708	1-136-167-00	FILM	0.15uF	5%	50V
C709	1-136-167-00	FILM	0.15uF	5%	50V
C711	1-163-129-00	CERAMIC CHIP	330PF	5%	50V (CDX-4040)
C712	1-163-129-00	CERAMIC CHIP	330PF	5%	50V (CDX-4040)
C713	1-128-339-91	ELECT	2200uF	20%	16V
C714	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C715	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C716	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V

MAIN

Ref.No.	Part No.	Description			Remark
C717	1-163-009-11	CERAMIC CHIP	0.001uF	10% 50V	
C719	1-163-063-00	CERAMIC CHIP	0.022uF	10% 50V	
C720	1-163-181-00	CERAMIC CHIP	100PF	5% 50V	
C721	1-126-159-11	ELECT	0.47uF	20% 50V	
C722	1-126-163-11	ELECT	4.7uF	20% 50V	
C723	1-126-163-11	ELECT	4.7uF	20% 50V	
C724	1-163-002-11	CERAMIC CHIP	270PF	10% 50V	(CDX-4040)
		< JACK >			
CNJ1	1-691-428-12	CONNECTOR 9P			
* CNJ2	1-580-802-21	SOCKET, CONNECTOR 20P			
* CNJ3	1-569-630-11	SOCKET, CONNECTOR 9P			
CNJ4	1-566-531-11	CONNECTOR, FPC (ZIF) 15P			
CNJ5	1-566-531-11	CONNECTOR, FPC (ZIF) 15P			
CNJ302	1-573-051-11	PIN, CONNECTOR (PC BOARD) 3P			
CNJ701	1-565-352-41	JACK, PIN 2P (LINE OUT)			(CDX-4040)
		< CONNECTOR >			
* CNP2	1-506-984-11	PIN, CONNECTOR (PC BOARD) 2P			
		< DIODE >			
D101	8-719-109-72	DIODE	RD3.9ES-B2		
D103	8-719-109-72	DIODE	RD3.9ES-B2		
D110	8-719-977-30	DIODE	DTZ11		
D201	8-719-109-72	DIODE	RD3.9ES-B2		
D203	8-719-109-72	DIODE	RD3.9ES-B2		
D210	8-719-977-30	DIODE	DTZ11		
D301	8-719-109-75	DIODE	RD4.3ES-B2		
D310	8-719-977-30	DIODE	DTZ11		
D402	8-719-120-75	DIODE	RD6.2ES-L1		
D403	8-719-110-46	DIODE	RD16ES-B3		
D404	8-719-120-75	DIODE	RD6.2ES-L1		
D406	8-719-110-13	DIODE	RD9.1ES-B2		
D407	8-719-110-12	DIODE	RD9.1ES-B1		
D408	8-719-911-19	DIODE	1SS119		
D409	8-719-911-19	DIODE	1SS119		
D410	8-719-110-14	DIODE	RD9.1ES-B3		
D411	8-719-110-13	DIODE	RD9.1ES-B2		
D412	8-719-120-78	DIODE	RD6.2ES-L3		
D413	8-719-104-34	DIODE	1S2836		
D414	8-719-109-89	DIODE	RD5.6ES-B2		
D416	8-719-400-18	DIODE	MA152WK		
D501	8-719-911-19	DIODE	1SS119		
D502	8-719-911-19	DIODE	1SS119		
D503	8-719-911-19	DIODE	1SS119		
D504	8-719-911-19	DIODE	1SS119		
D505	8-719-400-18	DIODE	MA152WK		
D506	8-719-110-13	DIODE	RD9.1ES-B2		

Ref.No.	Part No.	Description			Remark
D507	8-719-911-19	DIODE	1SS119		
D509	8-719-911-19	DIODE	1SS119		
D510	8-719-911-19	DIODE	1SS119		
D511	8-719-911-19	DIODE	1SS119		
D521	8-719-400-18	DIODE	MA152WK		
D601	8-719-800-76	DIODE	1SS226		
D602	8-719-104-34	DIODE	1S2836		
D603	8-719-911-19	DIODE	1SS119		
D604	8-719-911-19	DIODE	1SS119		
D703	8-719-945-59	DIODE	DSA3A4		
		< FRONTEND >			
FE601	1-693-066-11	TUNER UNIT			
		< IC >			
HIC601	1-808-515-11	IC	NMX3S900		
IC101	8-759-909-71	IC	BA4558F		
IC102	8-759-909-71	IC	BA4558F		
IC103	8-759-909-71	IC	BA4558F		
IC104	8-759-909-71	IC	BA4558F		
IC201	8-759-909-71	IC	BA4558F		
IC202	8-759-909-71	IC	BA4558F		
IC203	8-759-909-71	IC	BA4558F		
IC204	8-759-909-71	IC	BA4558F		
IC301	8-759-501-31	IC	SM5840CS		
IC302	8-759-909-71	IC	BA4558F		
IC303	8-759-932-64	IC	BU4052BF		
IC304	8-759-820-15	IC	LC7537AN		
IC305	8-759-631-00	IC	M5280FP		
IC306	8-759-822-61	IC	LC78820M		
IC307	8-759-909-71	IC	BA4558F		
IC401	8-759-982-07	IC	RC7808FA		
IC402	8-759-701-56	IC	NJM78M05FA		
IC403	8-759-421-13	IC	AN8009M		
IC501	8-759-059-94	IC	uPD75516GF-357-3B9		
IC502	8-759-932-86	IC	BU4081BF		
IC503	8-759-802-76	IC	LB1645N		
IC504	8-759-940-45	IC	S-8054HN-CB-S		
IC601	8-759-821-43	IC	LC7218M		
IC701	8-759-243-27	IC	TA8215H		
		< JUMPER RESISTOR >			
JR501	1-216-295-00	METAL CHIP	0	5% 1/10W	(CDX-4040:E)
JR503	1-216-295-00	METAL CHIP	0	5% 1/10W	(CDX-4040)
		< COIL >			
L301	1-410-202-51	INDUCTOR CHIP	6.8uH		
L401	1-410-519-11	INDUCTOR	68uH		

Ref.No.	Part No.	Description		Remark
L501	1-408-424-00	INDUCTOR	180uH	
L502	1-408-424-00	INDUCTOR	180uH	
L503	1-408-424-00	INDUCTOR	180uH	
L601	1-410-513-11	INDUCTOR	22uH	
		< TRANSISTOR >		
Q101	8-729-920-21	TRANSISTOR	DTC314TKH04	
Q102	8-729-920-21	TRANSISTOR	DTC314TKH04	(CDX-4040)
Q201	8-729-920-21	TRANSISTOR	DTC314TKH04	
Q202	8-729-920-21	TRANSISTOR	DTC314TKH04	(CDX-4040)
Q401	8-729-207-58	TRANSISTOR	RN1404	
Q402	8-729-230-49	TRANSISTOR	2SC2712-YG	
Q403	8-729-207-58	TRANSISTOR	RN1404	
Q404	8-729-230-49	TRANSISTOR	2SC2712-YG	
Q405	8-729-106-60	TRANSISTOR	2SB1115A	
Q406	8-729-207-57	TRANSISTOR	RN1403	
Q407	8-729-921-48	TRANSISTOR	2SD1760F5-Q	
Q410	8-729-921-48	TRANSISTOR	2SD1760F5-Q	
Q414	8-729-105-29	TRANSISTOR	2SA1385-L	
Q415	8-729-207-57	TRANSISTOR	RN1403	
Q416	8-729-105-29	TRANSISTOR	2SA1385-L	
Q417	8-729-207-57	TRANSISTOR	RN1403	
Q418	8-729-921-48	TRANSISTOR	2SD1760F5-Q	
Q419	8-729-920-85	TRANSISTOR	2SD1664-QR	
Q420	8-729-105-29	TRANSISTOR	2SA1385-L	
Q421	8-729-207-57	TRANSISTOR	RN1403	
Q422	8-729-230-49	TRANSISTOR	2SC2712-YG	
Q423	8-729-920-85	TRANSISTOR	2SD1664-QR	
Q424	8-729-207-69	TRANSISTOR	RN2403	
Q425	8-729-207-57	TRANSISTOR	RN1403	
Q428	8-729-105-29	TRANSISTOR	2SA1385-L	
Q429	8-729-106-60	TRANSISTOR	2SB1115A-YQ	
Q430	8-729-207-57	TRANSISTOR	RN1403	
Q501	8-729-230-49	TRANSISTOR	2SC2712-YG	
Q503	8-729-207-56	TRANSISTOR	RN1402	
Q504	8-729-232-48	TRANSISTOR	RN1410	
Q601	8-729-207-69	TRANSISTOR	RN2403	
Q602	8-729-230-49	TRANSISTOR	2SC2712-YG	
Q603	8-729-230-49	TRANSISTOR	2SC2712-YG	
Q604	8-729-230-49	TRANSISTOR	2SC2712-YG	
Q605	8-729-230-49	TRANSISTOR	2SC2712-YG	
Q606	8-729-106-60	TRANSISTOR	2SB1115A-YQ	
Q607	8-729-106-60	TRANSISTOR	2SB1115A-YQ	
Q609	8-729-230-49	TRANSISTOR	2SC2712-YG	
		< RESISTOR >		
R101	1-216-286-00	METAL GLAZE	4.7M 5%	1/8W
R102	1-216-053-00	METAL CHIP	1.5K 5%	1/10W
R103	1-216-053-00	METAL CHIP	1.5K 5%	1/10W
R104	1-216-073-00	METAL CHIP	10K 5%	1/10W
R105	1-216-073-00	METAL CHIP	10K 5%	1/10W
R106	1-216-089-00	METAL CHIP	47K 5%	1/10W
R107	1-216-073-00	METAL CHIP	10K 5%	1/10W
R108	1-216-079-00	METAL CHIP	18K 5%	1/10W (CDX-4040:US/EXCD-40:US)
R108	1-216-085-00	METAL CHIP	33K 5%	1/10W (CDX-4040:E)
R109	1-216-073-00	METAL CHIP	10K 5%	1/10W
R110	1-216-097-00	METAL CHIP	100K 5%	1/10W
R111	1-216-121-00	METAL CHIP	1M 5%	1/10W
R112	1-216-121-00	METAL CHIP	1M 5%	1/10W
R113	1-216-061-00	METAL CHIP	3.3K 5%	1/10W
R114	1-216-077-00	METAL CHIP	15K 5%	1/10W
R115	1-216-121-00	METAL CHIP	1M 5%	1/10W
R116	1-216-073-00	METAL CHIP	10K 5%	1/10W
R117	1-216-083-00	METAL CHIP	27K 5%	1/10W
R118	1-216-121-00	METAL CHIP	1M 5%	1/10W (CDX-4040)
R119	1-216-073-00	METAL CHIP	10K 5%	1/10W (CDX-4040)
R120	1-216-083-00	METAL CHIP	27K 5%	1/10W (CDX-4040)
R121	1-216-073-00	METAL CHIP	10K 5%	1/10W
R122	1-216-073-00	METAL CHIP	10K 5%	1/10W
R123	1-216-057-00	METAL CHIP	2.2K 5%	1/10W (CDX-4040)
R124	1-216-073-00	METAL CHIP	10K 5%	1/10W (CDX-4040)
R125	1-216-041-00	METAL CHIP	470 5%	1/10W
R126	1-216-075-00	METAL CHIP	12K 5%	1/10W
R127	1-216-073-00	METAL CHIP	10K 5%	1/10W
R128	1-216-025-00	METAL CHIP	100 5%	1/10W
R201	1-216-286-00	METAL GLAZE	4.7M 5%	1/8W
R202	1-216-053-00	METAL CHIP	1.5K 5%	1/10W
R203	1-216-053-00	METAL CHIP	1.5K 5%	1/10W
R204	1-216-073-00	METAL CHIP	10K 5%	1/10W
R205	1-216-073-00	METAL CHIP	10K 5%	1/10W
R206	1-216-089-00	METAL CHIP	47K 5%	1/10W
R207	1-216-073-00	METAL CHIP	10K 5%	1/10W
R208	1-216-079-00	METAL CHIP	18K 5%	1/10W (CDX-4040:US/EXCD-40:US)
R208	1-216-085-00	METAL CHIP	33K 5%	1/10W (CDX-4040:E)
R209	1-216-073-00	METAL CHIP	10K 5%	1/10W
R210	1-216-097-00	METAL CHIP	100K 5%	1/10W
R211	1-216-121-00	METAL CHIP	1M 5%	1/10W
R212	1-216-121-00	METAL CHIP	1M 5%	1/10W
R213	1-216-061-00	METAL CHIP	3.3K 5%	1/10W
R214	1-216-077-00	METAL CHIP	15K 5%	1/10W
R215	1-216-121-00	METAL CHIP	1M 5%	1/10W
R216	1-216-073-00	METAL CHIP	10K 5%	1/10W

MAIN

Ref. No.	Part No.	Description			Remark
R217	1-216-083-00	METAL CHIP	27K	5%	1/10W
R218	1-216-121-00	METAL CHIP	1M	5%	1/10W (CDX-4040)
R219	1-216-073-00	METAL CHIP	10K	5%	1/10W (CDX-4040)
R220	1-216-083-00	METAL CHIP	27K	5%	1/10W (CDX-4040)
R221	1-216-073-00	METAL CHIP	10K	5%	1/10W
R222	1-216-073-00	METAL CHIP	10K	5%	1/10W
R223	1-216-057-00	METAL CHIP	2.2K	5%	1/10W (CDX-4040)
R224	1-216-073-00	METAL CHIP	10K	5%	1/10W (CDX-4040)
R225	1-216-041-00	METAL CHIP	470	5%	1/10W
R226	1-216-075-00	METAL CHIP	12K	5%	1/10W
R227	1-216-073-00	METAL CHIP	10K	5%	1/10W
R228	1-216-025-00	METAL CHIP	100	5%	1/10W
R304	1-216-073-00	METAL CHIP	10K	5%	1/10W
R305	1-216-073-00	METAL CHIP	10K	5%	1/10W
R306	1-216-073-00	METAL CHIP	10K	5%	1/10W
R307	1-216-097-00	METAL CHIP	100K	5%	1/10W
R308	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R309	1-216-049-00	METAL CHIP	1K	5%	1/10W
R401	1-216-081-00	METAL CHIP	22K	5%	1/10W
R402	1-216-105-00	METAL CHIP	220K	5%	1/10W
R403	1-216-089-00	METAL CHIP	47K	5%	1/10W
R404	1-216-089-00	METAL CHIP	47K	5%	1/10W
R405	1-216-075-00	METAL CHIP	12K	5%	1/10W
R406	1-216-089-00	METAL CHIP	47K	5%	1/10W
R407	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W
R408	1-216-073-00	METAL CHIP	10K	5%	1/10W
R409	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W
R410	1-216-035-00	METAL CHIP	270	5%	1/10W
R411	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R414	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R419	1-216-073-00	METAL CHIP	10K	5%	1/10W
R420	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W
R421	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W
R422	1-216-073-00	METAL CHIP	10K	5%	1/10W
R423	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W
R424	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W
R425	1-216-035-00	METAL CHIP	270	5%	1/10W
R426	1-216-035-00	METAL CHIP	270	5%	1/10W
R427	1-216-194-00	METAL CHIP	680	5%	1/8W
R428	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R429	1-216-073-00	METAL CHIP	10K	5%	1/10W
R430	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W
R431	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W
R432	1-216-073-00	METAL CHIP	10K	5%	1/10W
R434	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R436	1-216-194-00	METAL CHIP	680	5%	1/8W
R438	1-216-073-00	METAL CHIP	10K	5%	1/10W
R439	1-216-200-00	METAL GLAZE	1.2K	5%	1/8W
R440	1-216-073-00	METAL CHIP	10K	5%	1/10W
R441	1-216-190-00	METAL GLAZE	470	5%	1/8W
R501	1-216-073-00	METAL CHIP	10K	5%	1/10W
R502	1-216-073-00	METAL CHIP	10K	5%	1/10W
R503	1-216-073-00	METAL CHIP	10K	5%	1/10W
R504	1-216-089-00	METAL CHIP	47K	5%	1/10W
R505	1-216-089-00	METAL CHIP	47K	5%	1/10W
R507	1-216-049-00	METAL CHIP	1K	5%	1/10W
R508	1-216-049-00	METAL CHIP	1K	5%	1/10W
R509	1-216-049-00	METAL CHIP	1K	5%	1/10W
R511	1-216-097-00	METAL CHIP	100K	5%	1/10W
R512	1-216-105-00	METAL CHIP	220K	5%	1/10W
R513	1-216-097-00	METAL CHIP	100K	5%	1/10W
R514	1-216-105-00	METAL CHIP	220K	5%	1/10W
R515	1-216-049-00	METAL CHIP	1K	5%	1/10W
R516	1-216-049-00	METAL CHIP	1K	5%	1/10W
R517	1-216-049-00	METAL CHIP	1K	5%	1/10W
R519	1-216-073-00	METAL CHIP	10K	5%	1/10W
R520	1-216-073-00	METAL CHIP	10K	5%	1/10W
R521	1-216-073-00	METAL CHIP	10K	5%	1/10W
R522	1-216-097-00	METAL CHIP	100K	5%	1/10W
R523	1-216-097-00	METAL CHIP	100K	5%	1/10W
R524	1-216-097-00	METAL CHIP	100K	5%	1/10W
R525	1-216-097-00	METAL CHIP	100K	5%	1/10W
R526	1-216-097-00	METAL CHIP	100K	5%	1/10W
R528	1-216-001-00	METAL CHIP	10	5%	1/10W
R529	1-216-027-00	METAL CHIP	120	5%	1/10W
R530	1-216-073-00	METAL CHIP	10K	5%	1/10W
R531	1-216-089-00	METAL CHIP	47K	5%	1/10W
R534	1-216-073-00	METAL CHIP	10K	5%	1/10W
R535	1-216-089-00	METAL CHIP	47K	5%	1/10W
R601	1-216-045-00	METAL CHIP	680	5%	1/10W (CDX-4040:E)
R601	1-216-049-00	METAL CHIP	1K	5%	1/10W (CDX-4040:US/EXCD-40:US)
R602	1-216-043-00	METAL CHIP	560	5%	1/10W
R603	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R604	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R605	1-216-049-00	METAL CHIP	1K	5%	1/10W
R606	1-216-049-00	METAL CHIP	1K	5%	1/10W
R607	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R608	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R609	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R610	1-216-063-00	METAL CHIP	3.9K	5%	1/10W
R611	1-216-049-00	METAL CHIP	1K	5%	1/10W
R612	1-216-049-00	METAL CHIP	1K	5%	1/10W
R613	1-216-059-00	METAL CHIP	2.7K	5%	1/10W

Ref.No.	Part No.	Description			Remark
R614	1-216-073-00	METAL CHIP	10K	5%	1/10W
R615	1-216-059-00	METAL CHIP	2.7K	5%	1/10W
R616	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R617	1-216-089-00	METAL CHIP	47K	5%	1/10W
R618	1-216-080-00	METAL CHIP	20K	5%	1/10W
R619	1-216-059-00	METAL CHIP	2.7K	5%	1/10W
R620	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R621	1-216-073-00	METAL CHIP	10K	5%	1/10W
R622	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R623	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R624	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R625	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R626	1-216-079-00	METAL CHIP	18K	5%	1/10W
R627	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R628	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R629	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R630	1-216-027-00	METAL CHIP	120	5%	1/10W
R703	1-216-059-00	METAL CHIP	2.7K	5%	1/10W
R704	1-216-059-00	METAL CHIP	2.7K	5%	1/10W
R705	1-216-041-00	METAL CHIP	470	5%	1/10W
R706	1-216-041-00	METAL CHIP	470	5%	1/10W
R707	1-216-097-00	METAL CHIP	100K	5%	1/10W
R708	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R709	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R710	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R711	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R712	1-216-214-00	METAL GLAZE	4.7K	5%	1/8W
		< VARIABLE RESISTOR >			
RV601	1-238-716-11	RES, ADJ, METAL GLAZE 100K			
RV602	1-238-713-11	RES, ADJ, METAL GLAZE 10K			
		< SWITCH >			
SW501	1-571-426-11	SWITCH, SLIDE (POWER SELECT)			
SW502	1-553-510-00	SWITCH, SLIDE (9K/10K) (CDX-4040:E)			
		< THERMISTOR >			
TH401	1-809-148-11	THERMISTOR, POSITIVE			
		< VIBRATOR >			
X301	1-567-820-11	VIBRATOR, CRYSTAL (16MHz)			
X501	1-567-775-11	VIBRATOR, CERAMIC (4.19MHz)			
X601	1-567-250-11	OSCILLATOR, CERAMIC (456kHz)			
X602	1-567-848-11	VIBRATOR, CRYSTAL (7.2MHz)			

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Ref.No.	Part No.	Description			Remark
*	A-3279-978-A	RF BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C1	1-135-166-21	TANTALUM CHIP	47uF	10%	10V
C2	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C3	1-126-599-11	ELECT	330uF	20%	6.3V
C4	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C5	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C6	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C7	1-163-078-11	CERAMIC CHIP	0.033uF	10%	25V
C8	1-163-059-00	CERAMIC CHIP	0.01uF	10%	50V
C9	1-126-593-11	ELECT CHIP	0.47uF	20%	50V
C10	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C11	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C12	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C13	1-126-593-11	ELECT CHIP	0.47uF	20%	50V
C14	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C15	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C16	1-126-590-11	ELECT CHIP	22uF	20%	4V
C17	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C18	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C19	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C20	1-126-592-11	ELECT CHIP	4.7uF	20%	16V
C21	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C22	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C23	1-126-591-11	ELECT CHIP	10uF	20%	6.3V
C24	1-126-594-11	ELECT CHIP	1uF	20%	50V
C25	1-126-594-11	ELECT CHIP	1uF	20%	50V
C26	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V
C27	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V
C29	1-126-590-11	ELECT CHIP	22uF	20%	4V
C30	1-126-590-11	ELECT CHIP	22uF	20%	4V
C31	1-126-590-11	ELECT CHIP	22uF	20%	4V
C34	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C35	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C36	1-126-592-11	ELECT CHIP	4.7uF	20%	16V
C37	1-126-591-11	ELECT CHIP	10uF	20%	6.3V
C38	1-162-638-11	CERAMIC CHIP	1uF		16V
C39	1-162-638-11	CERAMIC CHIP	1uF		16V
C40	1-126-176-11	ELECT	220uF	20%	10V
C99	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
		< JACK >			
CNJ11	1-568-141-11	HOUSING, CONNECTOR 5P			
CNJ12	1-568-142-11	HOUSING, CONNECTOR 13P			
CNJ13	1-566-531-11	CONNECTOR, FPC (ZIF) 15P			
CNJ14	1-566-531-11	CONNECTOR, FPC (ZIF) 15P			

RF

Ref.No.	Part No.	Description			Remark
		< CONNECTOR >			
* CNP10	1-506-990-11	PIN, CONNECTOR (PC BOARD) 8P			
		< IC >			
IC1	8-752-033-14	IC CXA1081Q			
IC2	8-752-057-45	IC CXA1082BQ			
IC3	8-752-341-93	IC CXD1167Q			
IC4	8-759-821-76	IC LA6533			
IC5	8-759-821-76	IC LA6533			
		< JUMPER RESISTOR >			
JR1	1-216-296-00	METAL CHIP	0	5%	1/8W
JR2	1-216-296-00	METAL CHIP	0	5%	1/8W
JR3	1-216-296-00	METAL CHIP	0	5%	1/8W
JR4	1-216-296-00	METAL CHIP	0	5%	1/8W
JR5	1-216-296-00	METAL CHIP	0	5%	1/8W
JR6	1-216-296-00	METAL CHIP	0	5%	1/8W
JR7	1-216-296-00	METAL CHIP	0	5%	1/8W
JR8	1-216-296-00	METAL CHIP	0	5%	1/8W
JR9	1-216-296-00	METAL CHIP	0	5%	1/8W
JR10	1-216-296-00	METAL CHIP	0	5%	1/8W
JR11	1-216-296-00	METAL CHIP	0	5%	1/8W
JR12	1-216-296-00	METAL CHIP	0	5%	1/8W
JR13	1-216-296-00	METAL CHIP	0	5%	1/8W
JR14	1-216-296-00	METAL CHIP	0	5%	1/8W
JR15	1-216-296-00	METAL CHIP	0	5%	1/8W
JR16	1-216-296-00	METAL CHIP	0	5%	1/8W
JR17	1-216-296-00	METAL CHIP	0	5%	1/8W
JR18	1-216-296-00	METAL CHIP	0	5%	1/8W
JR19	1-216-296-00	METAL CHIP	0	5%	1/8W
JR20	1-216-296-00	METAL CHIP	0	5%	1/8W
JR21	1-216-296-00	METAL CHIP	0	5%	1/8W
JR22	1-216-296-00	METAL CHIP	0	5%	1/8W
JR23	1-216-296-00	METAL CHIP	0	5%	1/8W
JR24	1-216-296-00	METAL CHIP	0	5%	1/8W
JR25	1-216-296-00	METAL CHIP	0	5%	1/8W
JR26	1-216-296-00	METAL CHIP	0	5%	1/8W
JR27	1-216-296-00	METAL CHIP	0	5%	1/8W
JR28	1-216-296-00	METAL CHIP	0	5%	1/8W
JR29	1-216-296-00	METAL CHIP	0	5%	1/8W
JR30	1-216-296-00	METAL CHIP	0	5%	1/8W
JR31	1-216-296-00	METAL CHIP	0	5%	1/8W
JR32	1-216-296-00	METAL CHIP	0	5%	1/8W
JR33	1-216-296-00	METAL CHIP	0	5%	1/8W
JR34	1-216-296-00	METAL CHIP	0	5%	1/8W
JR51	1-216-295-00	METAL CHIP	0	5%	1/10W
JR52	1-216-295-00	METAL CHIP	0	5%	1/10W
JR53	1-216-295-00	METAL CHIP	0	5%	1/10W
JR54	1-216-295-00	METAL CHIP	0	5%	1/10W
JR55	1-216-295-00	METAL CHIP	0	5%	1/10W
JR56	1-216-295-00	METAL CHIP	0	5%	1/10W
JR57	1-216-295-00	METAL CHIP	0	5%	1/10W
JR58	1-216-295-00	METAL CHIP	0	5%	1/10W
JR59	1-216-295-00	METAL CHIP	0	5%	1/10W
JR60	1-216-295-00	METAL CHIP	0	5%	1/10W
JR61	1-216-295-00	METAL CHIP	0	5%	1/10W
JR62	1-216-295-00	METAL CHIP	0	5%	1/10W
JR63	1-216-295-00	METAL CHIP	0	5%	1/10W
JR64	1-216-295-00	METAL CHIP	0	5%	1/10W
JR65	1-216-295-00	METAL CHIP	0	5%	1/10W
		< COIL >			
L1	1-410-204-31	INDUCTOR CHIP	10uH		
L2	1-410-198-51	INDUCTOR CHIP	3.3uH		
		< TRANSISTOR >			
Q1	8-729-900-53	TRANSISTOR	DTC114EK		
Q2	8-729-900-53	TRANSISTOR	DTC114EK		
Q3	8-729-900-53	TRANSISTOR	DTC114EK		
Q4	8-729-141-48	TRANSISTOR	2SB624-BV345		
		< RESISTOR >			
R1	1-216-150-00	METAL GLAZE	10	5%	1/8W
R2	1-216-081-00	METAL CHIP	22K	5%	1/10W
R3	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R4	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R5	1-216-075-00	METAL CHIP	12K	5%	1/10W
R6	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W
R7	1-216-097-00	METAL CHIP	100K	5%	1/10W
R8	1-216-073-00	METAL CHIP	10K	5%	1/10W
R9	1-216-073-00	METAL CHIP	10K	5%	1/10W
R10	1-216-073-00	METAL CHIP	10K	5%	1/10W
R11	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R12	1-216-105-00	METAL CHIP	220K	5%	1/10W
R13	1-216-121-00	METAL CHIP	1M	5%	1/10W
R14	1-216-105-00	METAL CHIP	220K	5%	1/10W
R15	1-216-085-00	METAL CHIP	33K	5%	1/10W
R16	1-216-687-11	METAL CHIP	33K	0.5%	1/10W
R17	1-216-085-00	METAL CHIP	33K	5%	1/10W
R18	1-216-081-00	METAL CHIP	22K	5%	1/10W
R19	1-216-081-00	METAL CHIP	22K	5%	1/10W
R20	1-216-085-00	METAL CHIP	33K	5%	1/10W
R21	1-216-085-00	METAL CHIP	33K	5%	1/10W
R22	1-216-097-00	METAL CHIP	100K	5%	1/10W
R23	1-216-097-00	METAL CHIP	100K	5%	1/10W
R24	1-216-103-00	METAL CHIP	180K	5%	1/10W
R25	1-216-210-00	METAL GLAZE	3.3K	5%	1/8W
R26	1-216-085-00	METAL CHIP	33K	5%	1/10W

Ref.No.	Part No.	Description			Remark
R27	1-216-085-00	METAL CHIP	33K	5%	1/10W
R28	1-216-081-00	METAL CHIP	22K	5%	1/10W
R29	1-216-081-00	METAL CHIP	22K	5%	1/10W
R30	1-216-085-00	METAL CHIP	33K	5%	1/10W
R31	1-216-097-00	METAL CHIP	100K	5%	1/10W
R32	1-216-076-00	METAL CHIP	13K	5%	1/10W
R33	1-216-076-00	METAL CHIP	13K	5%	1/10W
R34	1-216-059-00	METAL CHIP	2.7K	5%	1/10W
R35	1-216-114-00	METAL GLAZE	510K	5%	1/10W
R36	1-216-059-00	METAL CHIP	2.7K	5%	1/10W
R37	1-216-103-00	METAL CHIP	180K	5%	1/10W
R38	1-216-097-00	METAL CHIP	100K	5%	1/10W
R39	1-216-097-00	METAL CHIP	100K	5%	1/10W
R40	1-216-097-00	METAL CHIP	100K	5%	1/10W
R41	1-216-073-00	METAL CHIP	10K	5%	1/10W
R42	1-216-073-00	METAL CHIP	10K	5%	1/10W
R43	1-216-198-00	METAL CHIP	1K	5%	1/8W
R44	1-216-198-00	METAL CHIP	1K	5%	1/8W
R45	1-216-198-00	METAL CHIP	1K	5%	1/8W
R46	1-216-049-00	METAL CHIP	1K	5%	1/10W
R47	1-216-229-00	METAL GLAZE	20K	5%	1/8W
R48	1-216-220-00	METAL GLAZE	8.2K	5%	1/8W
R49	1-216-246-00	METAL GLAZE	100K	5%	1/8W
R50	1-216-085-00	METAL CHIP	33K	5%	1/10W
R51	1-216-081-00	METAL CHIP	22K	5%	1/10W
R52	1-216-081-00	METAL CHIP	22K	5%	1/10W
R53	1-216-683-11	METAL CHIP	22K	0.5%	1/10W
R54	1-216-081-00	METAL CHIP	22K	5%	1/10W
R55	1-216-024-00	METAL GLAZE	91	5%	1/10W
		< VARIABLE RESISTOR >			
RV1	1-237-013-21	RES, ADJ, METAL GLAZE	22K		
RV2	1-238-206-11	RES, ADJ, METAL GLAZE	47K		
RV3	1-238-665-11	RES, ADJ, CERMET	22K		
RV4	1-238-665-11	RES, ADJ, CERMET	22K		
RV5	1-238-662-11	RES, ADJ, CERMET	2.2K		
		< THERMISTOR >			
TH1	1-808-656-11	THERMISTOR			
TH2	1-808-656-11	THERMISTOR			
**********					
*	1-634-330-11	SENSOR BOARD			
		**********			
		< JUMPER RESISTOR >			
JR90	1-216-296-00	METAL CHIP	0	5%	1/8W
JR91	1-216-296-00	METAL CHIP	0	5%	1/8W
JR92	1-216-296-00	METAL CHIP	0	5%	1/8W

Ref.No.	Part No.	Description	Remark
		< TRANSISTOR >	
Q90	8-729-017-82	TRANSISTOR PN147-LP-R	
Q91	8-729-017-82	TRANSISTOR PN147-LP-R	
Q92	8-729-017-82	TRANSISTOR PN147-LP-R	
		<SWITCH>	
SW90	1-554-938-11	SWITCH, LEAF	
SW91	1-554-938-11	SWITCH, LEAF	
**********			
		MISCELLANEOUS	
		**********	
108	1-590-116-11	CORD (WITH CONNECTOR)	
332	1-454-461-11	SOLENOID, PLUNGER	
⚠431	8-848-224-11	DEVICE, OPTICAL KSS-320B(RP)	
⚠F1	1-532-422-11	FUSE (6.3A)	
⚠F2	1-532-414-11	FUSE (1.0A)	
M901	A-4910-183-A	MOTOR ASSY, SL(SLED)	
M902	1-541-448-41	MOTOR (SPINDLE)	
M903	X-3165-836-1	MOTOR ASSY	
SW90	1-554-938-11	SWITCH, LEAF	
SW91	1-554-938-11	SWITCH, LEAF	
**********			
		ACCESSORIES & PACKING MATERIALS	
		**********	
	1-690-573-11	CORD (WITH CONNECTOR) (Including FUSE 1.0A/6.3A)	
	3-323-209-01	BOLT (4-5), STUD	
	3-323-210-01	ADJUSTOR, STUD BOLT	
	3-323-219-01	FRAME, FITTING	
	3-329-814-01	SCREW (M4X6), SPECIAL PAN (+)	
	3-339-403-01	SPRING	
	3-339-416-01	COLLAR	(CDX-4040)
	3-339-416-21	COLLAR	(EXCD-40)
	3-349-410-01	BUSHING	
	3-368-115-01	COVER (WM)	
*	3-375-731-01	INDIVIDUAL CARTON	(CDX-4040)
*	3-375-733-01	CUSHION (UPPER)	
*	3-375-734-01	CUSHION (LOWER)	
*	3-375-736-01	INDIVIDUAL CARTON	(EXCD-40)
	3-383-621-01	LABEL, MODEL NUMBER	(CDX-4040:E)
*	3-375-178-01	LABEL, MODEL NUMBER	(CDX-4040:US)
*	3-375-177-01	LABEL, MODEL NUMBER	(EXCD-40)
*	3-701-619-00	BAG, POLYETHYLENE, STANDARD	

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
	3-754-535-21	MANUAL, INSTRUCTION (ENGLISH)	(EXCD-40)
	3-754-536-21	MANUAL, INSTRUCTION, INSTALL (ENGLISH)	(EXCD-40)
	3-754-537-11	MANUAL, INSTRUCTION (ENGLISH, SPANISH, CHINESE)	(CDX-4040:E)
	3-754-538-11	MANUAL, INSTRUCTION, INSTALL (CDX-4040:E) (ENGLISH, SPANISH, CHINESE)	
	3-754-537-21	MANUAL, INSTRUCTION (ENGLISH)	(CDX-4040:US)
	3-754-538-21	MANUAL, INSTRUCTION, INSTALL (CDX-4040:US) (ENGLISH)	

****

HARDWARE LIST

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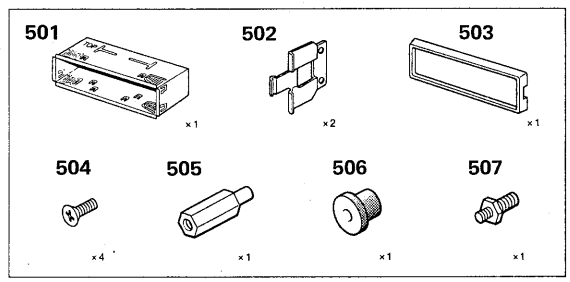
#1	7-621-770-67	SCREW +PTT 2.6X6 (S)
#2	7-685-133-19	SCREW +P 2.6X6 TYPE2
#3	7-685-646-79	SCREW +P 3 X 8 TYPE2 NON-SLIT
#4	7-685-103-19	SCREW +P 2 X 5 TYPE2 NON-SLIT
#5	7-624-104-04	STOP RING 2.0, TYPE -E
#6	7-627-553-28	SCREW, PRECISION +P 2 X 2.5
#7	7-627-553-37	SCREW, PRECISION +P 2 X 3
#8	7-627-552-18	SCREW, PRECISION +P 1.7X1.6
#9	7-621-772-08	SCREW +B 2X3
#10	7-627-850-57	SCREW, PRECISION +P 1.4X3.5
#11	7-627-553-17	SCREW +P 2 X 2.0, TYPE3
#12	7-627-554-18	SCREW +P 2 X 3.5, TYPE1
#13	7-627-451-17	SCREW +K 1.4X2.5, TYPE1
#14	7-627-852-17	SCREW, PRECISION +P 1.7X4.0
#15	7-627-552-08	SCREW +P 1.7X2.5, TYPE1

****

Ref. No.	Part No.	Description	Remark
		MOUNTED HARDWARE **********	
501	3-323-219-01	FRAME, FITTING	
502	3-339-403-01	SPRING	
503	3-339-416-01	COLLAR	(CDX-4040)
503	3-339-416-21	COLLAR	(EXCD-40)
504	3-329-814-01	SCREW (M4X6), SPECIAL PAN (+)	
505	3-323-210-01	ADJUSTOR, STUD BOLT	
506	3-349-410-01	BUSHING	
507	3-323-209-01	BOLT (4-5), STUD	

SUPPLIED MOUNTING HARDWARE



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